

D'Youville

2018-2019
ACADEMIC CATALOG

UNDERGRADUATE
DEGREE PROGRAMS

ACADEMIC CATALOG 2018-2019

Academic Catalogs 2018-2019

While this catalog was prepared on the basis of the best information available at the time of publication, all information including statements of tuition, fees, course offerings, admissions and graduate requirements is subject to change without notice or obligation. This catalog is not a contract or an offer to contract.

D'Youville College provides equality of opportunity to all persons with respect to employment and to admission of students. The college does not discriminate on the basis of race, religion, color, gender, age, creed, marital status, sexual orientation, veteran status, national or ethnic origin in administration of its educational policies, hiring policies, admissions policies, scholarship and loan programs and athletic and other school administered programs. It continues to be the policy of D'Youville College not to discriminate on the basis of disability. No person is denied admission, employment or access solely because of any physical, mental or medical impairment, which is unrelated to the ability to engage in activities involved in the education requirements or occupation for which applications have been made.

While D'Youville College makes strenuous efforts to contain costs, it reserves the right to increase tuition or fees without prior notice. D'Youville College also reserves the right to change its policies and requirements, without notice, for admission, conduct, coursework, graduation and other regulations affecting students. These regulations may govern current and new students and shall be effective when determined by D'Youville College. It is the student's responsibility to keep well-informed with respect to such regulations appearing in D'Youville College publications.

Inquiries concerning the application of Title IX may be referred to the college's Title IX coordinators, located in the College Center, Room 111, 716-829-8198, and the Niagara Street Annex, Room 206, 716-829-7811 or by e-mail at titleIXcoordinator@dyc.edu.

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ACADEMIC POLICIES AND PROCEDURES

Academic Adviser

All students at D'Youville College are assigned an academic adviser within their major. Advisers help assess progress, give direction in the program of study and assist in the choice of courses. Students must meet with their adviser before registering.

Students are welcome to contact their adviser at any time during the semester. All faculty members post and observe regular office hours and are also available by appointment.

Change of Adviser

Ordinarily a student will retain the adviser assigned by the department chair. An individual wishing to change advisers should obtain a change of adviser form. After completing the form with the required department signatures, the student must return the form to the [Office of the Registrar](#) for processing.

Academic Probation and Mandatory Leave of Absence

The academic policies committee reviews each student's academic progress. Sophomores, juniors and seniors are expected to maintain a minimum cumulative G.P.A. and a semester G.P.A. of 2.0. Freshmen are expected to earn a semester G.P.A. of at least 1.8. A student's academic standing is determined by the cumulative grade point average (G.P.A.). Students failing to meet these G.P.A. requirements receive a letter of warning from the vice president for academic affairs or dean, as appropriate and are placed on academic probation for one semester. After two consecutive semesters on probation, a student may be required to take a leave of absence or may be dismissed. Probation continues beyond two semesters only under extraordinary circumstances.

Freshmen with a cumulative G.P.A. below 1.8 are placed on academic probation for one semester and limited to 13 credit hours in the following semester. After two consecutive semesters with a cumulative G.P.A. below 1.8, a freshman is subject to dismissal from the college.

Students on academic probation are limited to a maximum of 13 credit hours. Freshmen and sophomores placed on probation by the Academic Policies Committee will be required to meet with a designated contact person in the Learning Center to develop an academic plan constructed to improve their cumulative G.P.A. Juniors and seniors will be subject to policies developed by their department. Failure to make these contacts may result in dismissal or mandatory leave of absence following review by the academic policies committee.

All students on probation are strongly encouraged to speak with the [Office of Retention Services](#) at 716-829-7625. No student who has been placed on a mandatory leave of absence will be permitted to take courses on a nonmatriculated basis during the term of the leave.

Certain academic programs have more restrictive requirements; please refer to specific degree program description.

Academic Year

The regular academic year is comprised of two semesters of approximately 15 weeks each. The fall semester begins on the first day of classes and ends on the last day of final exams, which occur before the Christmas holiday. The spring semester begins on the first day of classes and ends on the last day of final exams, which occur before Memorial Day. D'Youville also offers several sessions of summer study.

Admission to a Major

Qualified students are admitted to a major when they are accepted into the College. Students who are suitably qualified but undecided about their selection of a major may matriculate in the [Career Discovery Program \(CDP\)](#). A student who has attained 45 credit hours must be accepted into a major program or may be subject to dismissal from the College.

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Attendance

Students are expected to attend all regularly scheduled classes. Each instructor may determine the requirements for class attendance within specific courses; the requirements should be clearly stated at the beginning of each semester. Faculty are requested to notify the [Office of Retention Services](#) if a student has never attended or stops attending a class.

Candidacy For Graduation

To be eligible for a baccalaureate degree, a student must fulfill all core curriculum and major requirements, earn an overall grade point average of 2.0 and complete at least 30 undergraduate credit hours at D'Youville. The minimum number of credit hours required for any degree is 120 at the undergraduate level. Individual majors may require a greater number of credits and/or a higher grade point average.

Career Discovery Program

Qualified students who are admitted to the college but have not declared or been directly accepted into a college major will be assigned to the Career Discovery Program (CDP). The CDP provides students with opportunities to sample introductory courses, fulfill core requirements, and take career exploration courses before choosing an academic major. Students who have been dismissed from their academic program may also be served by the CDP given they have earned less than 45 credit hours. Students meeting academic requirements may apply to their intended major at any point throughout their time in the CDP; however, all students must be enrolled in a degree-granting major prior to earning 45 credit hours or risk being dismissed from the college.

Challenge Examinations

Challenge examinations assess prior accomplishment of knowledge in the course to be challenged. Challenge examinations may be taken for those courses that are specifically designated by number in the core or major and have been approved for challenge by the department in which the course is offered. The following limitations will apply:

1. A challenge examination is not a substitute for an independent study.
2. Determination of the student's prior knowledge and, therefore, eligibility for a challenge examination will be made by the instructor of the challenged course.
3. No course may be challenged in which the student has had prior coursework.
4. A challenge examination must be taken within six weeks of application for the exam.
5. A student may challenge a course only once. The challenge examination for a laboratory course should include a laboratory component as determined by the department of the challenged course.

Credits earned by a challenge examination will be designated "Challenge Exam Credit" in the student's transcript if the examination is passed at a level acceptable to the requirements of the student's major course of study. Nothing will be entered in the transcript if the examination is not passed at this level. Challenge exams do not count against the total number of credits a student is allowed to take on an S/U basis. No grade points will be assigned.

Students who need more information on challenge examinations may meet with the chair of the department in which the course is taught.

Change of Major

Any student who changes majors must complete a change of major form available in the [Office of the Registrar](#).

When making a formal application for a change of major, the student may request that specified courses required for the first major be excluded from the second major. The following conditions will prevail:

1. Course to be excluded was required in the previous major,
2. Course cannot be applied to core requirements except in the area of free electives,
3. Once approved, both credit(s) and grade points will be excluded from calculation toward the second degree,
4. Student must initiate the request in writing to the registrar.

The student may choose to keep some courses from the previous major and drop others. All courses taken remain on the student's transcript as part of the complete record, but the courses excluded will not be added to the cumulative GPA. Students who have applied and been accepted into a new major will be assigned a new academic adviser by the chair of the new academic major.

Change of Name, Address, or Phone

It is the responsibility of each individual student to notify D'Youville College, in writing, of any change of name, address or phone number. Forms are available in the [Office of the Registrar](#).

Change of Registration

Students may change their course selection online or by submitting a completed drop/add form to the [Office of the Registrar](#) during the scheduled drop/add period at the beginning of each semester.

Matriculating students need an adviser's signature on the drop/add form when adding or deleting a course. If a student merely wishes to change the section but retain the same course, only the student's signature is needed on the form. However, in those majors where student schedules are constructed with a pre-determined block of courses and/or laboratories, the signature of the chair is necessary to authorize a change of section.

Students may not "force register" by appearing in a class.

Classification of Students

Matriculating students are those accepted into a major who are following a prescribed curriculum of study leading to a degree. Matriculating students are eligible for financial aid consideration. Undergraduate matriculants are grouped by class year based on the number of credits completed for registration, financial aid and reporting purposes; however, in certain majors, program requirements determine the graduation year.

- Seniors have earned 86 or more credits.
- Juniors have earned 56-85 credits.
- Sophomores have earned 26-55 credits.
- Freshmen have earned 25 or fewer credits.

Non-matriculating students have not been formally accepted into an academic program, whether they are attending undergraduate or graduate classes. Non-matriculating students are subject to the college's academic policies and procedures. Students dismissed from the college or on a leave of absence may not attend as non-matriculating students.

Continuous Registration

Once accepted into an academic major, students are required to register for classes each semester and to remain in program pursuit. Any student who is unable to register for any semester(s) must contact the [Office of the Registrar](#) and complete the leave of absence/withdrawal form. Students who fail to continuously register and who also fail to file for a leave of absence will be considered as withdrawn from the college and will need to reapply for admission.

Students are required to have an active status the semester they graduate. Specifically, students must be registered for at least one class during their final semester. Any exception to this policy, including off-campus study, must be approved by the registrar and the vice president for academic affairs or dean, as appropriate.

Course Audit

Permission to audit a course must be obtained beforehand from the department chair after consultation with the instructor. The request to audit must be made at the time of registration.

Credit is not given for audited courses; a notation of AU appears on the transcript in place of a grade. The classification of audit and accompanying AU grade cannot be changed after the Add/ Drop period. The fees for auditing are equivalent to those for regular credited courses, except for alumni as indicated in the [fee schedule](#).

Course Load

Full-time undergraduate students carry 12 or more credits. Full-time tuition covers from 12 to 18 credit hours.

Students with a G.P.A. of 3.0 or above may elect to carry more than 18 hours a semester. Specific permission for this is obtained from their department chair. Students are charged for any credit hours over 18 at the current rate per credit hour.

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Credit by Examination for Advanced Standing

Advanced Placement Program

D'Youville participates in the Advanced Placement Program administered by the College Entrance Examination Board. Students who receive a rating of three to five on the Advanced Placement Examinations will be considered for college credit, advanced placement or both. Policies vary with the student's desire to use such credits in a major or in an elective area.

College Level Examination Program (CLEP)

The College Entrance Examination Board has established CLEP to measure academic achievement; it does not set standards or award credit. At D'Youville College, matriculated students are limited to 15 credit hours of credit by standardized examination to count toward D'Youville College credit. CLEP, Excelsior (Regents) College and other standardized college-level examinations taken prior to enrollment at D'Youville College are limited to 15 credit-hours and may be in addition to the limit of 15 credits while enrolled at D'Youville College. For additional information about CLEP, consult the [Office of the Registrar](#).

Excelsior (Regents) College Examination Program

The New York State Education Department established this program so that individuals who have developed college-level competencies outside the formal classroom can demonstrate these competencies and receive credit. The examinations are now available in more than 30 subjects. D'Youville participates in this program and grants credits to students who pass these examinations and meet D'Youville standards. A maximum of one full year's work (30 credits) may be accomplished in this way.

For further information, write to:

Excelsior College

Test Administration

7 Columbia Circle

Albany, NY 12203-5159

Or access the ACT PEP website at <http://www.excelsior.edu/exams>.

Cross Registration

Full-time undergraduate students may register for one course at another member college of the [Western New York Consortium of Higher Education](#) during the fall and spring semesters. A student must have an approved off-campus study request and may not become full-time by means of the cross-registration course. Cross registration of D'Youville students is subject to approval of their department chair and course availability at the member college. To complete cross registration, students must obtain a cross registration form from the [Office of the Registrar](#) and obtain the appropriate signatures.

Cross-Listed Courses

Several courses are listed in two disciplines. At the time of registration, the student may select the discipline where the credit will be applied and should indicate this on the registration form. Cross-listing is indicated after the course description in the catalog.

Dean's List

Full-time matriculating undergraduate students who have attained a semester average of 3.40 or above are eligible for the dean's list. Students with grades of incomplete at the end of a semester are ineligible for the dean's list for that semester. Students not enrolled in at least 12 undergraduate credit hours in a semester are not eligible for the dean's list.

Students who earned dean's list status in either the previous spring or fall semesters are acknowledged during the honors convocation held each spring.

Directed Study

In unusual circumstances, a student may be advised and permitted to take a course in the regular curriculum on a directed-study basis. Reasons for giving this permission are commonly related to the student's status and at the discretion of the chair of the department from which the course is taught:

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1. As a candidate for graduation whose program requires the course or
2. As a transfer into the major for whom the course is unavailable because of the course scheduling rotation.
3. When a course, which is offered only occasionally and is not necessary for the major, is sought by a student as an elective.

The student must obtain the approvals as indicated on the directed study form available in the registrar's office. No directed studies are permitted in any nursing clinical courses or student teaching assignment.

Dismissal From Major

A student dismissed from an academic major may transfer into another major before the beginning of the next semester, providing the student is qualified for and accepted by the new major. In the case of immediate transfer into a new major, the student's departmental file will be forwarded upon acceptance. Otherwise, the following policies will apply:

- When a student is dismissed from an academic major, the chair of that program will place a statement of explanation in the student's file detailing conditions under which the student may or may not re-apply to the program. The student's file will be forwarded to the coordinator of the Career Discovery Program and the student will be advised.
- The student will be required to take CDP 201, Career Planning (1 credit), in the semester immediately following the dismissal from the original major in order to continue to matriculate. Upon completion of this course, students must choose a major if they have completed 45 credit hours of academic work.

If a student is unable to comply with these policies, the student may be dismissed from the college.

Double Major

Students may major in two academic areas. The student will be required to fulfill degree requirements in both curricula. This may be done within the minimum 120 hours. Students must be formally accepted for admission into each degree program.

Education Programs in Non-Collegiate Organizations

In some circumstances, credit may be awarded for education and/or training obtained through certain non-collegiate organizations (e.g., industrial or corporate programs). Guidelines for awarding credit are currently found in the following documents:

- [The Directory of The National Program on Non-Collegiate Sponsored Instruction](#), The University of the State of New York and The State Education Department.
- [A Guide to the Evaluation of Educational Experiences in the Armed Services of the American Council on Education](#).

Examinations

Course examinations are given at the option of the instructor. If midterms are to be given, they are normally scheduled during a regular class period at approximately the eighth week of the semester.

Final examinations are scheduled by the registrar to be held at the end of the semester. The final examination period commences after study days as noted in the college calendar. Normally, final examinations are scheduled for Monday evening and all day Tuesday through Saturday following the end of classes.

A student should not regularly have more than three final examinations in any specific day. In the instance where this occurs, students should bring documentation (i.e., registration record and exam schedule) to the attention of the professors involved, who may make alternative arrangements in individual cases. Professors who find that a substantial number of students have such conflicts may wish to consult with the registrar and reschedule their examinations.

In those cases when the examination schedule must be postponed or interrupted because of external forces (e.g., weather), examinations will be rescheduled as soon as feasible.

Exceptions to Degree Requirements

Exceptions to major programs and/ or degree requirements must be made in writing. Forms (course substitution/ waivers) for this purpose are available in the [Office of the Registrar](#). Verbal approval is not sufficient.

It should be noted that when a course is waived, the credit requirement is not. Another course must be substituted for the original requirement.

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Family Education Rights and Privacy Act of 1974 (FERPA)

D'Youville College students or parents, as provided by statute, may review any official records, files and data directly related to themselves that are on file with the registrar's office or in the career services center. The files available include identifying data, academic work completed, grades, family background information, references, ratings and/or observations. (References, ratings and/or observations completed before Jan. 1, 1975 or that are older than seven years are not available to students.)

Requests to see the aforementioned materials should be made in writing to the registrar or the director of the career services center, respectively. The records, files and/or data will be made available no later than 45 days from the time the written request is received.

Student records, files, and data will be made available to other individuals or agencies outside of the college only after the student concerned has authorized the release of the information. However, the following are exceptions:

1. Authorized officials (e.g., officials of other schools in which the student seeks to enroll);
2. Accrediting organizations;
3. In the case of an emergency, if the knowledge of such information is necessary to protect the health and safety of the student or other persons.

The following, however, is considered directory information: the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. This information may be released by D'Youville without the consent of the student unless the student has specifically requested in writing that his or her consent be obtained beforehand. Directory information will not be made available to the party requesting it unless the appropriate administrative officer of D'Youville College has considered and approved the request.

A student or parent, as provided by statute, may request in writing a review of information that may be inaccurate and/or misleading. The review will be conducted by an appropriate D'Youville administrative officer who does not have a direct interest in the outcome.

Students Under 18 Years of Age

According to FERPA, information contained in the educational records of students who are 18 years of age or enrolled in post-secondary institutions may be sent to the parents without the written consent of the student only if the student is a financial dependent of the parents. (The term dependent is defined in section 152 of the Internal Revenue Code as an individual [son, daughter, stepson or stepdaughter of a taxpayer] who receives over half of his/her support from the taxpayer during the given calendar year.)

School Official

A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); contractors, consultants, volunteers and other outside parties to whom the institution has outsourced institutional services or functions instead of using College employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

Legitimate Educational Interest

Identifying a person as a "school official" does not automatically grant him or her unlimited access to education records. The existence of a legitimate educational interest may need to be determined on a case-by-case basis. D'Youville College constitutes a legitimate educational interest as the following:

- The information requested is necessary for that official to perform appropriate tasks that are specified in his or her position description or by a contract agreement.
- The information is to be used within the context of official agency or school business and not for purposes extraneous to the official's areas of responsibility or to the agency or school.
- The information is relevant to the accomplishment of some task or to a determination about the student.
- The information is to be used consistently with the purposes for which the data are maintained.

It is important to understand several points related to "legitimate educational interest:"

- Curiosity is not a legitimate educational interest. Just because you have access to the student information system and are able to view the record of your neighbor's son, does not mean that you have a legitimate educational interest in his grades and cumulative GPA.

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- Simply the fact that you are a college employee does not constitute legitimate educational interest. Your need to know must be related to your job responsibilities in support of the college's educational mission. In other words, records should be used only in the context of official business in conjunction with the educational success of the student.
- Your legitimate educational interest is limited. While you may have a need to access education records for students in your department, you do not necessarily have a similar need to view records of students outside your department. In other words, access to information does not authorize unrestricted use.

Education Records

Education records are all records that contain personally identifiable information directly related to a student and that are maintained by D'Youville College. Education records may be recorded and stored in any way, including: paper records, electronic records, handwriting, print, computer media, video or audio tape, film, microfilm, microfiche, and digital images.

Education records do not include the following:

- Personal knowledge and personal observations.
- Sole possession records – records kept in the sole possession of the maker, which are used only as a personal memory aid, and are not shared with or accessible by any other person.
- Law enforcement records – records created and maintained by D'Youville's campus security department for law enforcement purposes.
- Employment records – records pertaining only to a student's employment with D'Youville College relating only to his or her capacity as an employee.
- Alumni records – records created or received after a student is no longer in attendance at the College and unrelated to the student's attendance as a student.
- Peer grades – grades on peer-graded papers and assessments before they are collected and recorded by a teacher.
- Treatment records – records maintained by medical professionals and shared with other medical professionals for purposes of providing medical treatment to the student.

Fresh Start Rule

1. An undergraduate student who re-enrolls at D'Youville College after an absence of five or more years may petition the [Office of the Registrar](#) to re-evaluate all coursework attempted in the student's previous residency. If the petition is approved, all courses taken will remain on the permanent record. Those with grades of C- or higher or S (satisfactory) will be counted for credit; all others will not.
2. If the petition is approved, the student resumes his/her academic program with no cumulative grade point average and, therefore, is subject to the conditions of warning, probation and dismissal that govern all students.
3. Under the provisions of this rule a student prior to graduation must be re-enrolled for a minimum of 30 credit hours.
4. All courses ever taken at D'Youville College will be used in the calculation of the cumulative grade point average required for graduation with honors.

Grading

Grade Point Average

The semester average and the cumulative grade point average (G.P.A.) are derived by dividing the number of grade points earned by the number of semester credit hours attempted. (S/U grades carry no grade points.) Grades for courses transferred from other institutions are not included in the G.P.A. calculation.

Grade Point Definitions & Categorizations

Letter Grade	Grade Definition	Quality Points Per Semester	Numerical Average
A	Excellent	4.00	93-100
A-		3.67	90-92
B+		3.33	87-89
B	Good	3.00	83-86

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Letter Grade	Grade Definition	Quality Points Per Semester	Numerical Average
B-		2.67	80-82
C+		2.33	77-79
C	Average	2.00	73-76
C-		1.67	70-72
D+		1.33	67-69
D	Less than Average	1.00	63-66
D-	Minimum Passing Grade	0.67	60-62
F	Failure	0.00	Below 60
FX	Failure for Non-Attendance	0.00	
I*	Incomplete	0.00	
CIP*	Course in Progress	0.00	
NG	No Grade Submitted		
R	Course Repeated	0.00	
S	Satisfactory Completion of Minimal Requirements for Course	0.00	
U	Unsatisfactory	0.00	
UX	Unsatisfactory Non-Attendance		
W**	Withdrawal Without Penalty	0.00	

* The grade of I becomes an F if the work is not completed by April 20th (for fall courses), August 20th (for spring courses), or December 5th (for summer courses). I grades will be replaced with the earned grade upon course completion. Students will not be allowed to register for a course for which a prerequisite has been established, if a grade of incomplete has been received in the prerequisite course and has not been replaced by an acceptable grade before the course begins.

** A course may be dropped without academic penalty until the end of the tenth week of the semester. An F is given after that time.

Grade Reports

Approximately two weeks after the close of the semester, grade reports are available to students via the D'Youville website using the [Self-Service section of My D'Youville](#). If a mailed grade report is requested for employment or health insurance verification, it will be sent to the permanent address provided by the student.

Grade Change (All Grades Except "I")

Grades that have been recorded in the registrar's office can be changed only by the faculty member and with the permission of the department chair and appropriate dean. Forms for this purpose are available to faculty in the [Office of the Registrar](#).

I Grade

The grade of I (incomplete) is used when the instructor is not prepared to give a final mark for the semester, either because of the student's illness or some other justifiable delay in the completion of the course requirements.

Application for an I grade can be made on a form issued by the registrar's office that must include the instructor's signature. Alternatively, instructors can submit I grades directly to the registrar. The grade of I becomes an F if the work is not completed by April

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20th (for fall courses), August 20th (for spring courses), or December 5th (for summer courses). An incomplete grade deadline extension (to the next scheduled deadline) must be approved by the professor and may only be granted by the vice president for academic affairs or dean, as appropriate. If the work is still not completed and another extension is not granted, then the I grade will become an F or U.

Students who complete work for a course in which they have received an "I" grade may request a revised grade report from the registrar's office.

Graduation Honors

On the basis of the cumulative undergraduate grade point average, honors at graduation are awarded as follows:

Grade Point Average	Graduation Honor
3.46	cum laude
3.70	magna cum laude
3.90	summa cum laude

Transfer students must complete at least 60 credit hours of graded coursework at D'Youville to qualify for honors at graduation. S/U courses and challenge examinations do not count towards honors.

Independent Study

A student pursuing an independent study is able to pursue some special area of interest that is beyond the scope of current course offerings at D'Youville.

Seniors and juniors who have a cumulative average of at least 3.0 are eligible. Exceptions may be possible through petition if the cumulative average is at least 2.5.

The student undertaking such a project should have an appropriate background preparation in the subject.

Independent study courses will be designated by the discipline code letters, the numerals 479 (fall offering) or 480 (spring offering) and the initials IS (e.g., NUR 479IS). The title will reflect the course content.

The student must complete a written proposal of the study and obtain the approvals as indicated on the independent study form available in the [Office of the Registrar](#).

Leave of Absence

Leave of absence forms are located in the [Office of the Registrar](#). Students who have attended classes and are granted a leave of absence from their studies at DYC (or have a leave of absence mandated by the Academic Policies Committee) are not permitted to take courses at another institution during the time of the leave. In the exceptional case where this might be allowed, it may only be done with previous permission (refer to off campus study form). Students can request a leave of absence from their department chair or dean for one or two consecutive semesters. Students who need additional semester(s) of leave must receive approval from the vice president for academic affairs or dean, as appropriate. Students on leave of absence for more than 180 days may enter loan repayment.

Ordinarily, a student may not request a leave of absence after the tenth week of the semester. Special consideration is given for illness or other extenuating circumstances. The vice president for academic affairs or dean, as appropriate must give permission in these cases. In the event that a student does not return at the time stipulated, the leave automatically becomes a withdrawal. The student must then apply for readmission to the college.

Military Leave of Absence

Students who must interrupt their studies for military service due to a call up for a state/national emergency or deployment in support of military operations should contact the director of the office of veterans affairs on campus and supply the director with copies of his/her orders. D'Youville College is a Military Friendly Institute of Higher Learning (IHL), and as such complies with and goes beyond the requirements of all federal regulations governing the readmission requirements for service members by:

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- Readmitting the service member with the same academic status as when the student was last in attendance/ admitted (this requirement also applies to a student who was admitted to the college but did not begin attendance because of service in the uniformed services).
- All students called to active duty as outlined above will be offered the opportunity to complete the course(s) enrolled in, for the semester that their active duty commenced, by directed study (DS) or distance learning (DL) as approved by his/her professor(s) and the appropriate dean and/or department chair. To participate in this component of the military leave policy, the affected student should complete the Student Military DS/ DL Special Request Form available in the veterans affairs office of the college. The student must take the form to each of his/her professors for their approval before returning the form to the veterans affairs office for processing.
- Students called to active duty and/or deployed after drop/add week unable to complete their course(s) by DS or DL shall receive a grade of W for the course(s) enrolled in. Tuition/fees will be waived/refunded for those courses. Students called to active duty and/ or deployed before or during drop/ add week will have their registration deferred for that semester and will be reregistered upon return from active duty.
- If the tuition at the college increases during the student's military leave of absence the affected student will be charged, upon his/ her return, the tuition rate in effect for the school year, or portion there-of, that he/she was enrolled in when called to active duty.

Off-Campus Study

After formal matriculation at D'Youville College, students are expected to complete all coursework applicable to the degree at D'Youville College.

During the fall, spring and summer semesters in certain circumstances, off campus study may be allowed. Permission must be obtained including all required signatures on the off-campus study form prior to registering for the courses. Only courses that are contained in the College Transfer Equivalency table will be considered. If the course does not appear in the transfer table, the student should submit a syllabus to the dean of the school in which the course is taught at D'Youville for the decision about whether the course is equivalent.

Statements of Elaboration of Policy

Conditions that might result in a request for permission for off campus study include the following:

1. A course necessary for a student to maintain appropriate progress towards degree is not offered at D'Youville.
2. Students who fail a course or do not meet the minimum course requirements for their major at D'Youville College may only replace the failure by passing the course here at D'Youville College. Only by special permission (Please note: Special permission cannot supersede program requirements) would a student be allowed to register for an off campus course failed at D'Youville College, according to the following conditions:
 - a. Permission must be secured beforehand.
 - b. Permission must be recommended by the department chair and forwarded to the dean, as appropriate for the final decision.

[View the Transfer Equivalency Table](http://www.dyc.edu/oce/) for more information at <http://www.dyc.edu/oce/>.

Only courses for which the grade achieved meets the criteria for transferring credit will be accepted in transfer. Students who fail an off campus course are subject to the policies and procedures outlined by their School related to remaining in Good Academic Standing.

- Cross-References to Related Policies: All transfer credit guidelines apply. Please see the transfer credit section of this catalog.
- Links to Procedures of Forms: The Request for Off Campus Study application form can be found at www.dyc.edu/academics/registrar/forms.

Pass/Fail Option

All satisfactory/unsatisfactory grades appear on the transcript as S (Satisfactory) or U (Unsatisfactory) with no grade points assigned. Students may choose to receive an S/U grade in free elective courses in the core and in any course outside the major program requirements. Courses used to satisfy the WIP requirement cannot be taken Pass/ Fail (S/U). A maximum of eight credit-bearing courses may be chosen for an S/U grade during the college career. WIP courses are not eligible to be taken as an S/U course.

Courses may be taken in any semester as long as the total number of courses does not exceed eight.

Students must make application for an S/U grade by mid-semester as specified in the current college calendar. This is usually the eighth week of the semester. Once selected as S/U, a course may not subsequently be taken for a letter grade.

Policy on Academic Integrity

Students are expected to conduct themselves with integrity and honesty while completing course requirements and complying with college academic regulations. Violations of academic integrity include, but are not limited to, the following:

1. **Plagiarism:**
The presentation of another's writing or another's ideas as one's own without citation;
2. **Cheating:**
The use or provision of any unauthorized assistance when completing an exam or individual assignment;
3. **Falsification:**
The fabrication of signatures, notes, reports, data or other academic information; the submission of reports, papers or exams prepared by a person other than the student; this includes purchasing or selling term papers or other academic materials;
4. **Procurement:**
The distribution or acceptance of prior or current lab assignments, exams or other academic matter without the permission of the instructor; and
5. **Co-submission:**
The submission, without permission of the instructor, of academically required materials previously or contemporaneously submitted in whole or in substantial part in another course.

A breach of academic integrity as determined by the instructor will result in automatic failure of the exam, paper or course, and/or ineligibility to repeat the course, a requirement for additional academic work or other sanctions as stated in the course syllabus. In general, it is expected that most infractions will be handled between the student and the faculty member. Serious or repeated infractions, however, will be reported to the student's academic major program chair as defined below and to the vice president for academic affairs or dean, as appropriate.

The student may appeal decisions or judgments as outlined in the appeals procedures below. Repeated infractions may result in dismissal from the college.

Procedures for Alleged Violations of the D'Youville College Policy on Academic Integrity

An instructor who has knowledge that a student has committed a violation of the policy on academic integrity may respond as outlined above. If the student wishes to appeal the faculty member's decision, then the faculty member will, upon notification of the initiation of this appeal, notify in writing the chair of the student's academic major. If the student has no academic major, the department chair in which the student receives academic advisement will be notified.

Appeals from the instructor's decision will be made first to the instructor's chair or program head, then to the academic integrity board and then to the appropriate dean, whose decision will be final. An adverse decision may subject the student to additional program specific sanctions. In the event that the appeal is not upheld, a record of the violation and the penalty imposed will be a part of the student's academic record (department and registrar's office) while at the college.

If the student's records show prior offenses of the academic integrity policy, the matter will be reported to the chair of the student's major and the appropriate dean. The chair will decide upon appropriate sanctions and the matter will be reviewed by the academic integrity board. The decision made by the academic integrity board can be appealed to the appropriate dean, whose decision will be final.

At every step in the appeals process, the student retains the right to review and rebut the accusations of academic misconduct and the evidence that supports them.

The academic integrity board will be comprised of the members of the academic policies committee of the faculty council. Members of the committee who are involved in the alleged violation will recuse themselves from the proceedings. Sanctions for second and subsequent violations of the academic integrity policy require approval by members of this board and are as follows:

1. Dismissal from the student's academic program with either an opportunity to reapply after one semester or one year or no opportunity to reapply.
2. Mandatory leave of absence from the college for at least one semester and no more than two semesters. The term semester does not include summer sessions or courses. Any credit earned at another institution while a student is on a mandatory leave of absence will not be accepted by D'Youville College for any purpose.
3. Dismissal from the college with no opportunity to reapply.

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Prerequisites and Corequisites

Prerequisites are courses that must be successfully completed (as determined by the regulations of the department in which the course is taught) before a specific course is begun. These courses generally are part of a sequence that a department determines must be completed for the integrity of the discipline and the benefit of the student. Individual departments may set higher standards of acceptable completion of prerequisites in order to progress to the next level of the major.

Corequisite courses must be successfully completed either before a specific course is begun or at the same time as a designated course. If a corequisite has not previously been completed successfully, the student must register for both the designated course and the corequisite at the same time. In most cases, withdrawal from the corequisite may result in the need to withdraw from the primary course. Students may occasionally (after consulting their academic advisor) wish to withdraw from a corequisite course in mid-semester while remaining in the other course. This can only be done with the agreement of the instructor of the course in which the student wishes to remain. It is recommended in such a case that the student continue to audit the corequisite course while attending the other, and that the corequisite be completed during the next semester in which the course is offered.

In some departments, courses are listed as prerequisite and co-requisite to more than one course. In this instance, students may withdraw from a course but must successfully complete it prior to beginning the higher level course for which it is a prerequisite.

Registration

Specific online registration dates are assigned for each class year; dates and time of registration are posted on the [Office of the Registrar's webpage](#) and outside the Office of the Registrar in KAB, Room 221.

Prior to registration, students must consult with their academic advisor and ensure their billing accounts are in order. At the time of registration, the student must be in compliance with New York state health laws.

Student schedules are available online at the Office of the Registrar's [Schedules and Registration Information section](#).

Once officially registered, the individual is responsible for payment of tuition and fees. No one will receive credit for a course unless officially registered for it.

To avoid a late registration fee, continuing students must register no later than one week before classes begin.

Religious Holidays

D'Youville College complies with state regulations regarding religious holidays. State Education Law S224-a, regarding students unable because of religious beliefs to attend classes on certain days, states the following:

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he/she is unable, because of religious beliefs, to attend classes or participate in any examination, study or work requirement on a particular day or days.
2. Any student in an institution of higher education who is unable, because of religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.
3. It shall be the responsibility of the faculty and the administrative officials of each institution of higher education to make available to each student, who is absent from school because of religious beliefs, an equivalent opportunity to make up any examination, study or work requirements the student may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the student such equivalent opportunity.
4. If classes, examinations, study or work requirements are held on Friday after 4 PM or on Saturday, similar or make-up classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study or work requirements held on other days.
5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial efforts shall result to any student who makes use of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in supreme court of the county in which such institution of higher education is located for the enforcement of rights under this section.

Repeating a Course

1. Students may repeat any course once. In each case, the original grade is replaced by the second grade earned, whether higher or lower, when calculating the G.P.A. Students must complete and submit the appropriate form, from the [Office of the Registrar](#), at the time of registration for a second repeat of a course. Students should take note that, if the repetition is not required by the college, New York state will not allow the credit hours for the course to be included in the minimum course load required for financial aid purposes.
2. For any additional repeat of any course, permission must be recommended by the department chair and forwarded to the vice president for academic affairs or dean, as appropriate for final decision.
3. Students who fail a course or do not meet minimum course requirements for a major at D'Youville College may only replace the failure by passing the course at D'Youville College. Only by special permission would a student be allowed to register off campus for a course failed at D'Youville College. Permission must be secured beforehand according to the off-campus study form.

Retention Services

The office of retention services supports and promotes student goals towards degree completion and develops retention interventions that foster student success. The office serves as a student advocate and assists with any issues and problems brought forward by students, taking a proactive approach to reach out to students at risk of falling behind.

Goals of the office of retention services:

1. Guide and assist students with problem solving and provide awareness of college services available.
2. Encourage successful academic progress and persistence.
3. Provide support to students through the withdrawal/leave of absence process.
4. Provide guidance to those students on academic probation.
5. Utilize student feedback to improve student services.

For assistance or for more information, contact the [Office of Retention Services](#) at 716-829-7625.

Second Bachelor's Degree

To earn a second baccalaureate degree, a student is required to complete at least 30 credit-hours at D'Youville in addition to those required for the original baccalaureate degree. All requirements for the curriculum in which the second degree is earned must also be satisfied.

Title IX and Retention

Title IX Statement

Title IX of the Education Amendments of 1972 (Title IX), 20 U.S.C. § 1681 et seq., is a federal civil right law that prohibits discrimination on the basis of sex in education programs and activities. All public and private elementary and secondary schools, school districts, colleges, and universities (hereinafter "schools") receiving any federal funds must comply with Title IX. Under Title IX, discrimination on the basis of sex can include sexual harassment or sexual violence, such as rape, sexual assault, sexual battery and sexual coercion. Inquiries concerning the application of Title IX may be referred to the college's Title IX coordinators:

College Center, Room 111
 716-829-8198
titleixcoordinator@dyc.edu

Niagara Street Annex, Room 206
 716-829-7811
titleixcoordinator@dyc.edu

The college's Title IX policy can be located on the college website at: www.dyc.edu/titleix.

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Retention

To comply with the Student Right-to-Know and Campus Security Act, the college must report its completion or graduation rate of full-time degree-seeking undergraduate students. For those students who entered D'Youville College in the fall of 2009, the percentages of those completing their degree program by August 2015 are the following:

Student Classification	Completion Percentage
Full-time, first-time college students	44%
Transfer students	70%

Research conducted across the nation on completion rates of full-time students entering as freshmen are between 40 and 49 percent depending on the research study.

Please note these statistics reflect both four year programs and five year dual-degree programs combined.

If you desire more information, please contact the director of retention services at 716-829-7625.

Placement

The following are the overall career progress results from the graduating class of 2015, based upon the annual survey:

Overall Career Progress Results	
Total graduates	714
Total responses to the annual survey	63.72%

Based upon the responses, the following were tabulated:

Overall Career Progress Results	
Graduates continuing studies (at masters, doctoral, advanced certificate level)	12.96%

Note: Graduate school rates are affected by the fact that many D'Youville graduates obtain their master's degree from the college in combined programs.

Overall Career Progress Results	
Successful placement for 2015 respondent/acknowledgment group:	92.08%*

* Includes direct career employment, graduate school, and other employment.

Transcript of Academic Record

A transcript of an academic record includes all courses taken at D'Youville College and credit hours earned at D'Youville as well as earned credit hours accepted as transfer credit. Extraneous information from other colleges or from high school records is not included on the D'Youville College record.

All requests for transcripts must be made to the registrar's office in person or in writing. To protect students, the registrar's office recommends that official transcripts bearing the college seal be mailed directly to the agency or institution requiring them. If a student needs an official transcript to complete either a college or employer application, the transcript will be issued in a sealed envelope and "Issued to Student" will be noted on the transcript. If the envelope is opened or tampered with, the transcript is no longer considered official. Unofficial student copies of transcripts are available through the Self-Service menu on the DYC Portal for the personal use of

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current students. Current transcript fees are listed in this catalog in the section titled "Expenses and Financial Aid." A transcript or any information concerning a student's record will not be released if there is any outstanding indebtedness to the college.

Transcript requests are processed in the order they are received. During times of particularly high-volume activity, such as periods of registration, grade reporting or commencement, transcripts may not be processed immediately.

Transfer Credit

The [Office of the Registrar](#) determines whether college credits previously earned at other institutions may be transferred to D'Youville College. Evaluation of credit is made only after the student submits an official transcript. Transfer credit may be awarded for each course in which the student has earned a grade of C or better from a regionally accredited institution in courses applicable to the College core or the intended major or program. Certain majors or programs may require higher grades and specific timelines to transfer in specific areas. Departments and schools reserve the right to refuse to accept transfer credit hours in fulfillment of their major requirements. Grades for transfer credits do not appear on the D'Youville College transcript and are not included in the student's GPA calculation.

Students may transfer up to half of the credits required for their major course or program of study and all of the credits required to meet the college core requirements. Students must complete a minimum of 30 semester credit hours at D'Youville College and meet all of their major/ program and core curriculum requirements in order to graduate from the college. Transfer credits completed at institutions with other than regional accreditation are evaluated for transfer purposes on a case-by-case basis.

Students entering D'Youville College with a bachelor's degree from a regionally accredited institution, as determined by the registrar's office, are not required to meet the core requirements. However, they must make up any prerequisites for the major curriculum, complete at least one-half of the major curriculum requirements at D'Youville and fulfill all other requirements pertaining to the degree.

Verification For Graduation

Responsibility for fulfilling degree requirements rests with the student. Final verification is done by the [Office of the Registrar](#).

Each student must submit an application for graduation form to the registrar's office to verify eligibility for graduation. This should be completed no later than Oct. 30 for students graduating in May or August of the following year. Students who expect to graduate in December should complete the verification process during the preceding spring semester. The commencement ceremony is held in May. Students are eligible to participate in the commencement ceremony if all degree requirements are completed in December of the preceding year, in May or in August. A student may be eligible for August completion only if there are no more than nine credits to be completed during the summer session.

All financial obligations to D'Youville must be fulfilled before the diploma can be awarded or transcripts issued.

NOTE: For students in programs requiring licensure, registration or certification for entry into practice, please note that graduation from an academic program does not guarantee licensure, registration and/or certification. For additional information, refer to the degree program section of this catalog and/or contact the department chair of a specific program.

Withdrawal From a Course

In order to withdraw from a course at any time, a student must complete a course (drop/add) form, obtain the signature of the advisor and return the form to the registrar's office before the end of the tenth week of the semester.

The student receives the grade of "W" when the student withdraws after the end of the drop/add period but before the end of the tenth week of the semester. Students who withdraw after the tenth week will receive a grade of "F" for the course.

Students who merely stop attending receive a grade of "FX". Students submitting a withdrawal form are encouraged to speak with the director of retention services at 716.829.7625.

Withdrawal From the College

A student intending to withdraw from D'Youville must contact the department chair in person or in writing and submit the proper withdrawal forms to the [Office of the Registrar](#).

Withdrawal will be considered effective the date the written intent of withdrawal is received. The procedure is not complete until the written intent is properly filed with the college.

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If the withdrawal procedure is completed mid-semester, courses for which the student is currently enrolled will be assigned the grade of W. No tuition refund will be made after the sixth week of the semester (or after dates stated in the liability schedule).

Discontinuance of attendance, notifying instructors or mere telephone contact with college personnel DOES NOT constitute an official withdrawal. Students remain academically and financially responsible for all courses for which they have enrolled until the withdrawal procedure has been finalized with the registrar's office.

All students withdrawing from the college, are encouraged to participate in an exit interview. Contact the [Office of Retention Services](#) for more information.

Core Curriculum

D'Youville College firmly believes that the liberally educated person is free from a narrowness of interest which results from excessive specialization. Therefore, a central aim is to introduce students to the principal areas of human learning and to enable students to cultivate respect for those areas.

To help achieve this, D'Youville requires that all students take a rounded program of humanistic studies called the core curriculum. The faculty of D'Youville College has adopted the following statement of the goals of the core curriculum:

1. The core seeks to instill intellectual breadth in our students by leading them to a thorough and reflective understanding of the diverse answers to the great social and scientific problems that have confronted humanity throughout history and across cultures. The core also seeks to provide the students with the tools to assess the applicability of emerging as well as already extant answers to these problems. In this way, it prepares them to think critically and render sound decisions in their personal and professional lives.
2. The core seeks to teach students to write well and to speak effectively. But this is only one side of communication. The core also seeks to instill the love of reading and the ability to listen to others. By teaching students to listen as well as to contribute, the core equips them to work effectively as individuals and as members of a group.
3. The core seeks to prepare our students for the future by encouraging them to understand and explore emerging technologies.
4. The core promotes a desire in our students to understand and search for beauty and passion, be it in art, music, literature or other aspects of their lives.
5. The core requires students to re-examine their own lives and their own ethical beliefs by examining how the best thinkers humanity has to offer have grappled with the central questions of human life. While the core cannot compel virtue, it is to be hoped that students will independently accept the obligation and the responsibility of full participation in society, both locally and globally, with honor, magnanimity and civility.
6. The core seeks to instill in students an understanding of their place in history and the vast tapestry of world cultures.
7. The core seeks to produce students who will dedicate themselves to their own lifelong intellectual and spiritual development, and who will foster an atmosphere of intellectual freedom in which others may realize these goals.

Core Curriculum Courses

The core curriculum consists of at least 19 courses distributed as follows:

Humanities

A total of eight courses in the humanities are required.

Required Courses
ENG 111 English Communication
ENG 112 English Communication
Choose One
PHI 201 Ethics in Theory and Action (OR)
PHI 201 Religion and Social Responsibility
Select five courses from at least three of the following areas:
Foreign Language (any course)
Religious Studies (any course)
Literature (any literature course in English or a foreign language, excluding ENG 111 and ENG 112)
Fine Arts: Fine Arts, Music, Dance (3 credits), Creative Writing, Speech or Theatre Arts
Philosophy (any course)

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Social Sciences

A total of four courses in the social sciences are required, one from each of the following areas:

Courses
Sociology 101 OR Sociology 102
History 103 OR History 111 OR History 203 OR History 204 *
Economics 201 OR Economics 202 OR Political Science 201
Psychology 101 OR Psychology 203

*High school average (and all Social Studies courses) with a B or better permits selection of any 300 or 400 level history course.

Natural Sciences

A total of two courses in natural sciences, from the following disciplines, are required. One of the courses must include a lab.

Courses
Biology (100 or 200 level)
Chemistry (100 or 200 level) excluding CHE 105 & CHE 115
Physics (100 or 200 level)

Mathematics

Course
One mathematics course (at the 100 level) is required (MAT 101 is excluded).

Computer Science

Course
One computer science course (at the 100 level) is required.

Electives

Course
Students must also complete an additional three electives (outside of the requirements for their academic major).

Writing Intensive Program (WIP)

Designated courses in the Writing Intensive Program have two purposes: to develop expository skills and to teach the use of language as an instrument for thinking across disciplines. Such courses aim to develop student writers' mastery of language so that they may discover, organize and communicate their knowledge. WIP courses are offered in a variety of disciplines. They offer students guided practice in writing in differing fields across the curriculum, teach the skills necessary to write for the course/discipline and offer intensive professor/student interaction.

Requirement

Every candidate for any undergraduate degree (including B.S./M.S. degrees) entering the College must successfully complete two courses designed: Writing Intensive Program. English 111 is a prerequisite for all WIP courses.

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A student may satisfy one-half (one course) of the WIP requirement by transfer credit from another regionally accredited institution for any course designated as writing intensive or satisfying the criteria of a DYC writing intensive course. To receive this credit, the student must present to the registrar and department chair copies of original course descriptions and assignments.

Alternatively, a student may satisfy one-half (one course) of the WIP requirement by presenting a portfolio of writing to his or her department chair. A student seeking a waiver for one half (one course) of the WIP requirement through a portfolio evaluation must request that evaluation before the eighth week of the semester preceding the student's projected final semester. Failure to do so will result in the probability of the portfolio not being evaluated for credit. The portfolio should consist of a minimum of 20 pages of formal writing (excluding drafts) and should reflect the standards of writing for the student's discipline and the student's ability to proceed to advanced work in that discipline. To verify authorship, any student presenting a portfolio may need to take an essay examination in the presence of his or her department chair, advisor, or WIP director. Courses used to satisfy the WIP requirement cannot be taken Pass/Fail (S/U).

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DEGREES AND PROGRAMS

PROGRAM CODE	PROGRAM NAME	DEGREE	HEGIS CODE
SCHOOL OF ARTS, SCIENCES AND EDUCATION			
83625	Accounting	B.S.	0502
29322	Accounting/International Business	B.S./M.S.	0502
05873	Biology	B.A.	0401
37788	Biology	B.A./M.S.	0401/0412
05873	Biology	B.S.	0401
37787	Biology	B.S./M.S.	0401/0412
21519	Business Management	B.S.	0506
30643	Chemistry	B.S.	1905
05889	English	B.A.	1501
05897	History	B.A.	2205
20843	International Business	B.S./M.S.	0513
29645	Mathematics	B.A.	1701
35383	Mathematics	B.S.	1701
05891	Philosophy	B.A.	1509
22775	Psychology	B.A.	2001
05898	Sociology	B.A.	2208
SCHOOL OF HEALTH PROFESSIONS			
1306	Dietetics	B.S./M.S.	88129
1299	Exercise and Sports Studies	B.S.	28089
36384	Health Analytics	B.S.	1299
24361	Health Services Management	B.S.	1202
26612	Human Occupation/Occupational Therapy	B.S./M.S.	1208
28171	Physical Therapy	B.S. + D.P.T.	1212
92142	Physician Assistant	B.S./M.S.	1299.1
36851	Public Health	B.S.	1214
SCHOOL OF NURSING			
05888	Nursing	B.S.N.	1203
27624	Nursing	B.S.N. (for R.N.)	1203.10
SCHOOL OF PHARMACY			
39212	Pharmaceutical Science	B.S.	0409.00

BIOLOGY AND MATHEMATICS

Department of Biology and Mathematics

Knowledge of science and mathematics is essential to the development of a liberally educated person. The student with a special interest in biology and mathematics will find a foundation for a wide variety of professional careers. These career opportunities are expanding rapidly in today's increasingly technological society.

The community of scholars that comprises the faculty of biology and mathematics department is committed to excellence in teaching, learning and research. The Biology and Mathematics department faculty encourage scholarship, skeptical inquiry and the free exchange of ideas within the department and in the classroom and laboratory, and promote the application of this knowledge beyond those settings. The department seeks to foster these principles in every one of its students, regardless of academic background, in ways that can both be measured and defy measurement.

All D'Youville students take some science and mathematics courses within the department. The department offers two bachelor's degrees in biology and two in mathematics. Requirements for these programs are listed in the courses of instruction section of this catalog. The department offers structured minors in analytics, anatomy, bioinformatics, biology, environmental science, mathematics and natural sciences. The department also provides the basic science courses for many programs, including nursing, physician assistant, physical therapy, chiropractic, dietetics, exercise sports science, health analytics, health services management, public health, and occupational therapy.

BIOLOGY B.A.

B.A. Program

This program has fewer required courses in mathematics, chemistry and physics and a lesser requirement of biology electives than the B.S. program. It is intended for those who do not wish to pursue an advanced degree in biology or medicine. It is for those who wish to teach high school biology or to combine biology with another concentration, e.g., nursing, business, preparation for physician assistant or with a structured minor. A total of 34 credit hours in biology including BIO 101-102 or its equivalent, 302, 303 and 312, is required. The additional 14 credit hours must be selected from BIO 107, 108, 208, 216, 217, 218, 229, 230, 231, 242, 304, 309, 310, 314, 317, 320, 330, 331, 332, 335, 336, 339, 342, 350, 351, 375, 389-390, 403, 407-410, 479-480 and 659/660. CHE 101-102, 219 and one semester of mathematics chosen from MAT 117, 120, 123 or 125 are also required

Admission Requirements

The B.S. in biology is designed for students preparing for graduate school as well as for professional programs in medicine, veterinary medicine, dentistry, physician assistant, physical therapy, podiatry, optometry, chiropractic and pharmacology. It includes the following admission categories: BIOB.S., BIOPT, PREMED, PREDENT, PREVET, CHP, PREPHARMACY and PRECHIROPRACTIC. The B.A./health professions preparation program is designed for students preparing for graduate programs in physician assistant and other allied health fields. Admission to the D'Youville graduate physician assistant program will require application directly to the program during the beginning of the third and/or final year of undergraduate study.

Admission into the B.A. in biology and the B.A. in biology for secondary education requires a minimum SAT score of 980 (Math and Verbal) (or 19 ACT), a high school average of 85 percent and a transfer G.P.A. of 2.0. Admission into the B.S. requires a minimum SAT score of 1080 (Math and Verbal) (or ACT of 21), a high school average of 85 percent or a 2.85 on a four point scale and a rank in the top 50 percent of one's class. Transfer students are required to have a minimum G.P.A. of 2.5.

Students nearly meeting these requirements will be considered for these programs by the department. Students denied immediate acceptance into the biology B.S. will be accepted into the biology B.A. program if they meet its requirements. These students may submit a change of major to the biology BS program after they have sufficiently demonstrated competence (usually after the completion of two semesters).

Program Requirements

Students within the department must maintain a minimum 2.0 G.P.A. in courses taken at D'Youville in coursework required for their major. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four nonconsecutive semesters. Students who exceed these limits will be dismissed from the major. If a student is dismissed from the B.S. program on account of poor performance in courses not required for the B.A. program, a student may have his/her record re-evaluated as a major in the B.A. program, and may be declared in good standing if his/her performance in the B.A. requirements justifies this.

Students may appeal these decisions on academic status by submitting, in writing, to the department chairperson, reasons why exceptional consideration may be justified.

Physical Therapy (PT) Students choosing the sequential degree entry will complete their B.S. in biology and move directly into the graduate P.T. program provided they complete all P.T. program prerequisites at a grade of B or better with a minimum prerequisite course G.P.A. of 3.20 as well as a cumulative G.P.A. of 3.0 and continue to meet all graduate admissions standards. Refer to the physical therapy department section for further details about graduate P.T. programs.

PreMed/PreDent: This program offers motivated students the option to register for courses to fulfill the prerequisites for application to most medical and dental schools. The science emphasis includes both semesters of biology, chemistry, organic chemistry, physics and calculus. Students will be able to complete these courses within their first two years, which will give them the requirements needed to apply to the early assurance program at the University at Buffalo Medical School and other medical/dental schools in the spring semester of their sophomore year.

Course Requirements

Biology

Degree: B.A.

Course Requirements for the Major:

In the specific areas of concentration:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 302	Genetics.....	4
BIO 302L	Genetics Lab.....	0
BIO 303	Biochemistry.....	3
BIO 303L	Biochemistry Laboratory.....	1
BIO 312	Molecular Cell Biology.....	4

Total Credits: 20

Biology electives chosen from: (14 credits)

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
BIO 216	Marine Biology.....	3
BIO 218	Invertebrate Zoology.....	4
BIO 218L	Invertebrate Zoology Lab.....	0
BIO 229	Ecology.....	4
BIO 229L	Ecology Lab.....	0
BIO 230	Foundations of Environmental Science.....	4
BIO 230L	Foundations of Environmental Science.....	0
BIO 231	Environmental Geology.....	4
BIO 231L	Environmental Geology Lab.....	0
BIO 242	Evolution.....	3
BIO 304	Microscopic Anatomy.....	4
BIO 304L	Microscopic Anatomy Lab.....	0
BIO 309	Virology.....	3
BIO 310	Immunology.....	3
BIO 314	Botany.....	4
BIO 317	Comparative Anatomy.....	4
BIO 317L	Comparative Anatomy Lab.....	0
BIO 320	Developmental Biology.....	4
BIO 320L	Dev Biology Lab.....	0
BIO 330	Environmental Microbiology.....	4
BIO 330L	Environmental Microbiology Lab.....	0
BIO 331	Conservation Biology.....	4
BIO 331L	Conservation Biology Lab.....	0
BIO 332	Environmental Health.....	3
BIO 335	Pharmacology I.....	3
BIO 336	Pharmacology II.....	3
BIO 339	Human Gross Anatomy.....	6
BIO 339L	Gross Anat Lab.....	0
BIO 350	Fund of Genomics, Proteomics & Bioinformatics.....	3
BIO 351	Computational Biology.....	4
BIO 351L	Computational Biology Lab.....	0
BIO 375	Math Modeling in Biology.....	3
BIO 389-90	Special Topics in Biology.....	3-4

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BIO 407-410	Research.....	1-3
BIO 479-480	Independent Study.....	1-3
BIO 480	Special Topics.....	1
BIO 659	Advanced Physiology I.....	3
BIO 660	Advanced Physiology II.....	3

Total Credits: 101-106*In other academic areas required for the major:*

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
*MAT	One Elective from MAT 117, MAT 120, MAT 122, MAT 123, MAT 125 or MAT 389.....	3

Total Credits: 15**Major requirements: 49-50****Other core requirements: 39****Free electives (including core electives): 31-32****Total: 120****Biology****Degree: B.A. for Health Professions Preparation***(Preparation for Physician Assistant B.S./M.S. Please note: Matriculation into the P.A. program requires application, interview and acceptance.)***Course Requirements for the Major:***In the specific areas of concentration:*

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 302	Genetics.....	4
BIO 302L	Genetics Lab.....	0
*BIO 303	Biochemistry.....	3
*BIO 303L	Biochemistry Laboratory.....	1
BIO 312	Molecular Cell Biology.....	4

Total Credits: 20*Biology electives including:*

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
BIO 339	Human Gross Anatomy.....	6
BIO 339L	Gross Anat Lab.....	0

Total Credits: 18*In other academic areas required for the major:*

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3

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CHE 219L Organic Chemistry Lab..... 1
 +MAT 123 Introduction to Applied Statistics..... 4

Total Credits: 16

Health Professions preparation option (B.S./M.S. in physician assistant preparation):

+PHI 214 Challenges of Death..... 3
 +PHI 312 Bioethics Seminar..... 3
 *BIO 307 Pathophysiology..... 3
 +PSY 203 Developmental Psychology..... 3

Total Credits: 12

+Fulfills core curriculum requirements.

*Must be taken at D'Youville.

Major Masters in P.A. preparation (BIO BA degree): 54

Other core requirements: 30

Pre-P.A. option: 12

Free electives: 24

Total: 120

BIOLOGY B.A. + ANATOMY M.S.

Overview

The B.A. in biology combined M.S. in anatomy program is a 5-year program designed for students preparing for graduate school as well as for professional programs in medicine, veterinary medicine, dentistry, physician assistant, physical therapy, podiatry, optometry, chiropractic and pharmacology. It includes the following admission categories: BIOB.S., BIOPT, PREMED, PREDENT, PREVET, CHP, PREPHARMACY and PRECHIROPRACTIC.

Enter as a undergraduate in D'Youville's combined Biology BA + Anatomy MS, and you'll benefit from intensive, hands-on study with a solid grounding in contemporary research techniques. You'll gain valuable practical experience in our cutting-edge human gross anatomy labs all while working closely with faculty both in the classroom and in research settings.

When you graduate from D'Youville's anatomy program, you'll be well-prepared for a variety of career paths including pursuing a professional healthcare or science degree (MD, DO, PA, DC, PhD, etc.), academic research and instruction, or scientific and managerial positions in health-related industries.

Admission Requirements

FIRST TIME FRESHMEN

Students entering as Freshmen into the joint BS/MS program must meet DYC entrance criteria.

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. If you have been successful in a traditional college preparatory program in high school, you should be well-prepared for the academic challenges at D'Youville.

Students entering D'Youville as a freshman must meet the following minimum entrance criteria:

High School Average	SAT + (or)	ACT
85	980	19

+ Score is based on the new SAT score format which went into effect in March 2016.

Our admitted freshman class profile:

High school average of 85 percent or a 2.85 on a four point scale
Rank in the top 50 percent of one's class.

Test Scores	25th Percentile	75th Percentile	Median
SAT Evidence-based Reading and Writing*	460	590	530
SAT Math*	510	590	550
SAT Composite*	1010	1180	1090
ACT Composite*	21	25	23

*These scores reflect the new SAT score format, which went into effect in March 2016.

TRANSFER STUDENTS

Students entering D'Youville as a transfer student must meet the following entrance criteria:

Criteria for Admission: Transfer students with a 2.5 cumulative GPA or higher will be considered for admission.

Average Cumulative GPA: Minimum of a C (2.0) grade in all pre-requisite courses for the M.S. Anatomy program completed at a previous institution (*Refer to Program Requirements For the M.S. Anatomy program below*).

Review the [steps to apply for admission](#) to D'Youville as a transfer student.

Undergraduate phase

Students within the department must maintain a minimum 2.0 G.P.A. in courses taken at D'Youville in coursework required for their major. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four nonconsecutive semesters. Students who exceed these limits will be dismissed from the major. Students may appeal these decisions on academic status by submitting, in writing, to the department chairperson, reasons why exceptional consideration may be justified.

Graduate phase

Students must have a minimum GPA of 3.0 prior to entry into the graduate phase of the program. Students must obtain a C or better in all prerequisite courses for the MS program to move in to the graduate phase of the program. These courses include:

- BIO 101, BIO 101L BIO 102, and BIO 102L or BIO107 BIO107L, BIO 108 and BIO 108L
- BIO 302
- BIO 302L
- CHE 101
- CHE 101L
- CHE102
- CHE102L
- CHE 219
- CHE 219L
- CHE 220 and CHE 220L or BIO 303 and BIO303L
- MAT 123
- ENG 111
- ENG 112

During the graduate phase students must maintain a cumulative GPA of 3.0 or above for all graduate course (500 and 600 level courses). A student who has less than a 3.0 cumulative G.P.A at any time is placed on academic probation for one semester. At the end of the probation semester, the student's file is reviewed by the graduate program coordinator. If the student's cumulative G.P.A. is a minimum of 3.0, the student is automatically removed from probation. If the student does not achieve a 3.0 G.P.A., the graduate program coordinator will either dismiss the student from the program immediately or continue the student on probation for one more semester. If a minimum of 3.0 is not achieved following the second semester of probation dismissal is automatic.

Courses must be completed with a grade of C or better, with only two of these classes below a B. A student who receives less than a C or fails a Satisfactory/ Unsatisfactory course must repeat the course unless they have been dismissed. Courses may be repeated one time only. A G.P.A. of 3.0 is required at the time of graduation. Each student must successfully complete and present a research project or capstone project, which includes a written manuscript or scholarly written report and successful presentation of the project to their chosen committee (research project) or classmates (capstone project).

An appeal to any of the above may be made by following the grievance procedures.

During the graduate phase students are required to successfully complete two semester of teaching assistantship in the Anatomy and Physiology I and II laboratories.

Course Requirements

Biology B.A. + Anatomy M.S.

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Degree: B.A./M.S.

Course Requirements for the Biology B.A.:

In the specific areas of concentration:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 302	Genetics.....	4
BIO 302L	Genetics Lab.....	0
BIO 303	Biochemistry.....	3
BIO 303L	Biochemistry Laboratory.....	1
BIO 312	Molecular Cell Biology.....	4

Total Credits: 20*Biology electives chosen from: (14 credits)*

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
BIO 216	Marine Biology.....	3
BIO 218	Invertebrate Zoology.....	4
BIO 218L	Invertebrate Zoology Lab.....	0
BIO 229	Ecology.....	4
BIO 229L	Ecology Lab.....	0
BIO 230	Foundations of Environmental Science.....	4
BIO 230L	Foundations of Environmental Science.....	0
BIO 231	Environmental Geology.....	4
BIO 231L	Environmental Geology Lab.....	0
BIO 242	Evolution.....	3
BIO 304	Microscopic Anatomy.....	4
BIO 304L	Microscopic Anatomy Lab.....	0
BIO 309	Virology.....	3
BIO 310	Immunology.....	3
BIO 314	Botany.....	4
BIO 317	Comparative Anatomy.....	4
BIO 317L	Comparative Anatomy Lab.....	0
BIO 320	Developmental Biology.....	4
BIO 320L	Dev Biology Lab.....	0
BIO 330	Environmental Microbiology.....	4
BIO 330L	Environmental Microbiology Lab.....	0
BIO 331	Conservation Biology.....	4
BIO 331L	Conservation Biology Lab.....	0
BIO 332	Environmental Health.....	3
BIO 335	Pharmacology I.....	3
BIO 336	Pharmacology II.....	3
BIO 339	Human Gross Anatomy.....	6
BIO 339L	Gross Anat Lab.....	0
BIO 350	Fund of Genomics, Proteomics & Bioinformatics.....	3
BIO 351	Computational Biology.....	4
BIO 351L	Computational Biology Lab.....	0
BIO 375	Math Modeling in Biology.....	3
BIO 389-90	Special Topics in Biology.....	3-4
BIO	Research.....	1-3
407-410		
BIO	Independent Study.....	1-3
479-480		
BIO 480	Special Topics.....	1

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BIO 659	Advanced Physiology I.....	3
BIO 660	Advanced Physiology II.....	3

Total Credits: 14

In other academic areas required for the major:

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
*MAT	One Elective from MAT 117, MAT 120, MAT 122, MAT 123, MAT 125 or MAT 389.....	3

Total Credits: 15

Course Requirements for the Anatomy M.S.:

BIO 639	Human Gross Anatomy.....	6
BIO 639L	Gross Anat Lab.....	0
BIO 504	Microscopic Anatomy.....	4
BIO 504L	Microscopic Anatomy Lab.....	0
BIO 505	Neurobiology.....	4
BIO 505L	Neurobiology Lab.....	0
BIO 517	Comparative Anatomy.....	4
BIO 517L	Comparative Anatomy Lab.....	0
BIO 520	Developmental Biology.....	4
BIO 520L	Developmental Biology Lab.....	0
ANA 601	Research Methods in Anatomy I.....	3
ANA 602	Research Methods in Anatomy II.....	4
BIO 689	Special Topics.....	1

Total Credits: 30

BIOLOGY B.S. + ANATOMY M.S.

Overview

Enter as a undergraduate in D'Youville's combined Biology BS + Anatomy MS, and you'll benefit from intensive, hands-on study with a solid grounding in contemporary research techniques. You'll gain valuable practical experience in our cutting-edge human gross anatomy labs all while working closely with faculty both in the classroom and in research settings.

When you graduate from D'Youville's anatomy program, you'll be well-prepared for a variety of career paths including pursuing a professional healthcare or science degree (MD, DO, PA, DC, PhD, etc.), academic research and instruction, or scientific and managerial positions in health-related industries.

Admission Requirements

FIRST TIME FRESHMEN

Students entering as Freshmen into the joint BS/MS program must meet DYC entrance criteria.

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. If you have been successful in a traditional college preparatory program in high school, you should be well-prepared for the academic challenges at D'Youville.

Students entering D'Youville as a freshman must meet the following minimum entrance criteria:

High School Average	SAT + (or)	ACT
85	1080	21

- High school average of 85 percent or a 2.85 on a 4.0 scale
- Rank in the top 50 percent of one's class

+ Score is based on the new SAT score format which went into effect in March 2016.

Our admitted freshman class profile:

High school average: 85% attained a B or better

Class rank: 87% of students in the top 50 percent of their class or higher

Test Scores	25th Percentile	75th Percentile	Median
SAT Evidence-based Reading and Writing*	460	590	530
SAT Math*	510	590	550
SAT Composite*	1010	1180	1090
ACT Composite*	21	25	23

*These scores reflect the new SAT score format, which went into effect in March 2016.

TRANSFER STUDENTS

Students entering D'Youville as a transfer student must meet the following entrance criteria:

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Criteria for Admission: Transfer students with a 2.75 cumulative GPA or higher will be considered for admission.

Average Cumulative GPA: Minimum of a C (2.0) grade in all pre-requisite courses for the M.S. Anatomy program completed at a previous institution (*Refer to Program Requirements for the M.S. Anatomy program above*).

Review the [steps to apply for admission](#) to D'Youville as a transfer student.

Undergraduate phase

Students within the department must maintain a minimum 2.0 G.P.A. in courses taken at D'Youville in coursework required for their major. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four nonconsecutive semesters. Students who exceed these limits will be dismissed from the major. Students may appeal these decisions on academic status by submitting, in writing, to the department chairperson, reasons why exceptional consideration may be justified.

Graduate phase

Students must obtain a C or better in all prerequisite courses for the MS program to move in to the graduate phase of the program. These courses include:

- BIO 101, BIO 101L BIO 102, and BIO 102L or BIO107 BIO107L, BIO 108 and BIO 108L
- BIO 302
- BIO 302L
- CHE 101
- CHE 101L
- CHE102
- CHE102L
- CHE 219
- CHE 219L
- CHE 220 and CHE 220L or BIO 303 and BIO303L
- MAT 123
- ENG 111
- ENG 112

Courses must be completed with a grade of C or better, with only two of these classes below a B. A student who receives less than a C or fails a Satisfactory/ Unsatisfactory course must repeat the course unless they have been dismissed. Courses may be repeated one time only. A G.P.A. of 3.0 is required at the time of graduation. Each student must successfully complete and present a research project or capstone project, which includes a written manuscript or scholarly written report and successful presentation of the project to their chosen committee (research project) or classmates (capstone project).

A student must receive a C or better in all graduate courses, or courses counting towards graduate credit. A student who receives less than a C or fails a Satisfactory/ Unsatisfactory course must repeat the course unless they have been dismissed. Courses may be repeated one time only.

An appeal to any of the above may be made by following the D'Youville College grievance procedures

Course Requirements

Biology B.S. + Anatomy M.S.

Degree: B.S./M.S.

Course Requirements for the Biology B.S.:

In the specific areas of concentration:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 302	Genetics.....	4
BIO 302L	Genetics Lab.....	0
BIO 303	Biochemistry.....	3
BIO 303L	Biochemistry Laboratory.....	1

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BIO 312	Molecular Cell Biology.....	4
		Total Credits: 20

Biology electives chosen from: (18 credits)

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
BIO 216	Marine Biology.....	3
BIO 217	Animal Handling.....	3
BIO 218	Invertebrate Zoology.....	4
BIO 218L	Invertebrate Zoology Lab.....	0
BIO 229	Ecology.....	4
BIO 229L	Ecology Lab.....	0
BIO 230	Foundations of Environmental Science.....	4
BIO 230L	Foundations of Environmental Science.....	0
BIO 231	Environmental Geology.....	4
BIO 231L	Environmental Geology Lab.....	0
BIO 242	Evolution.....	3
BIO 304	Microscopic Anatomy.....	4
BIO 304L	Microscopic Anatomy Lab.....	0
BIO 309	Virology.....	3
BIO 310	Immunology.....	3
BIO 314	Botany.....	4
BIO 317	Comparative Anatomy.....	4
BIO 317L	Comparative Anatomy Lab.....	0
BIO 320	Developmental Biology.....	4
BIO 320L	Dev Biology Lab.....	0
BIO 330	Environmental Microbiology.....	4
BIO 330L	Environmental Microbiology Lab.....	0
BIO 331	Conservation Biology.....	4
BIO 331L	Conservation Biology Lab.....	0
BIO 332	Environmental Health.....	3
BIO 335	Pharmacology I.....	3
BIO 336	Pharmacology II.....	3
BIO 339	Human Gross Anatomy.....	6
BIO 339L	Gross Anat Lab.....	0
BIO 350	Fund of Genomics, Proteomics & Bioinformatics.....	3
BIO 351	Computational Biology.....	4
BIO 351L	Computational Biology Lab.....	0
BIO 375	Math Modeling in Biology.....	3
BIO	Special Topics in Biology.....	3-4
389-390		
BIO	Research.....	1-3
407-410		
BIO	Independent Study.....	1-3
479-480		
BIO 659	Advanced Physiology I.....	3
BIO 660	Advanced Physiology II.....	3
		Total Credits: 103-108

In other academic areas required for the major:

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
CHE 220	Organic Chemistry II.....	3

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CHE 220L	Organic Chemistry II Lab.....	1
MAT 123	Introduction to Applied Statistics.....	4
MAT 125	Calculus I.....	4
MAT 126	Calculus II.....	4
PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1

Total Credits: 36

Course Requirements for the Anatomy M.S.:

BIO 639	Human Gross Anatomy.....	6
BIO 639L	Gross Anat Lab.....	0
BIO 504	Microscopic Anatomy.....	4
BIO 504L	Microscopic Anatomy Lab.....	0
BIO 505	Neurobiology.....	4
BIO 505L	Neurobiology Lab.....	0
BIO 517	Comparative Anatomy.....	4
BIO 517L	Comparative Anatomy Lab.....	0
BIO 520	Developmental Biology.....	4
BIO 520L	Developmental Biology Lab.....	0
ANA 601	Research Methods in Anatomy I.....	3
ANA 602	Research Methods in Anatomy II.....	4
BIO 689	Special Topics.....	1

Total Credits: 30

Other core requirements: 39

Free electives: 7

BIOLOGY B.S.

B.S. Program

This program has been designed to satisfy the admission requirements of medical, dental, veterinary, physical therapy, pharmacy and chiropractic schools and provides a sound preparation for many graduate programs in the sciences. Students interested in a degree in physical therapy will matriculate in a sequential-degree, entry-level P.T. program (B.S. in biology + D.P.T. program). Entering freshmen matriculate in and complete a B.S. in biology degree under the program administration of the department of biology and mathematics. Upon completion of the B.S. in biology, qualified graduate students then move directly into the three-year doctor of physical therapy program (D.P.T.).

A total of 38 hours in biology, including BIO 101-102, 302, 303 and 312 are required. BIO 302 should be taken in the second year, BIO 303 and BIO 312 in the junior year. The additional 18 credit hours must be selected from BIO 107, 108, 208, 216, 217, 218, 229, 230, 231, 242, 304, 309, 310, 314, 317, 320, 330, 331, 332, 335, 336, 339, 350, 351, 375, 389-390, 407-410, 479-480 and 659/660. CHE 101-102, 219-220, MAT 125-126 and PHY 101-102 are also required. It is expected that courses that have accompanying laboratory sections will be completed as well.

In addition to the above science courses, many medical schools stress the need for applicants with a broad and humanities-based education. After consulting their advisor, students should select courses in philosophy, ethics, history and literature to contribute to their liberal arts education. A pre-medical advisory committee gives students current information about medical schools. A faculty advisor will advise students interested in graduate school possibilities. The department also offers assistance for the student to prepare for graduate school entrance exams (e.g., GRE, MCAT, and DAT).

Admission Requirements

The B.S. in biology is designed for students preparing for graduate school as well as for professional programs in medicine, veterinary medicine, dentistry, physician assistant, physical therapy, podiatry, optometry, chiropractic and pharmacology. It includes the following admission categories: BIOB.S., BIOPT, PREMED, PREIDENT, PREVET, CHP, PREPHARMACY and PRECHIROPRACTIC. The B.A./health professions preparation program is designed for students preparing for graduate programs in secondary education, physician assistant and other allied health fields. Admission to the D'Youville graduate physician assistant program will require application directly to the program during the beginning of the final year of undergraduate study.

Students nearly meeting these requirements will be considered for these programs by the department. Students denied immediate acceptance into the biology B.S. will be accepted into the biology B.A. program if they meet its requirements. These students may submit a change of major to the biology BS program after they have sufficiently demonstrated competence (usually after the completion of two semesters).

Program Requirements

Students within the department must maintain a minimum 2.0 G.P.A. in courses taken at D'Youville in coursework required for their major. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four nonconsecutive semesters. Students who exceed these limits will be dismissed from the major. If a student is dismissed from the B.S. program on account of poor performance in courses not required for the B.A. program, a student may have his/her record re-evaluated as a major in the B.A. program, and may be declared in good standing if his/her performance in the B.A. requirements justifies this.

Students may appeal these decisions on academic status by submitting, in writing, to the department chairperson, reasons why exceptional consideration may be justified.

Physical Therapy (PT) Students choosing the sequential degree entry will complete their B.S. in biology and move directly into the graduate P.T. program provided they complete all P.T. program prerequisites at a grade of B or better with a minimum prerequisite course

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G.P.A. of 3.20 as well as a cumulative G.P.A. of 3.0 and continue to meet all graduate admissions standards. Refer to the physical therapy department section for further details about graduate P.T. programs.

PreMed/PreDent: This program offers motivated students the option to register for courses to fulfill the prerequisites for application to most medical and dental schools. The science emphasis includes both semesters of biology, chemistry, organic chemistry, physics and calculus.

Course Requirements

Biology

Degree: B.S. for Health Professions Preparation (D.P.T)

Course Requirements for the Major:

In the specific areas of concentration:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 302	Genetics.....	4
BIO 302L	Genetics Lab.....	0
*BIO 303	Biochemistry.....	3
*BIO 303L	Biochemistry Laboratory.....	1
BIO 312	Molecular Cell Biology.....	4
Total Credits: 20		

Biology electives including:

*BIO 107	Human Anatomy & Physiology I.....	3
*BIO 107L	Human Anatomy & Physiology Laboratory.....	1
*BIO 108	Human Anatomy & Physiology II.....	3
*BIO 108L	Human Anatomy & Physiology II Lab.....	1
Total Credits: 8		

Biology electives for majors: 10

In other academic areas required for the major:

*CHE 101	General Chemistry I.....	3
*CHE 101L	General Chemistry Laboratory.....	1
*CHE 102	General Chemistry II.....	3
*CHE 102L	General Chemistry Laboratory II.....	1
*CHE 219	Organic Chemistry.....	3
*CHE 219L	Organic Chemistry Lab.....	1
*CHE 220	Organic Chemistry II.....	3
*CHE 220L	Organic Chemistry II Lab.....	1
MAT 125	Calculus I.....	4
MAT 126	Calculus II.....	4
*PHY 101	General Physics I.....	3
*PHY 101L	Gen Physics Lab I.....	1
*PHY 102	General Physics.....	3
*PHY 102L	Gen Physics Lab II.....	1
Total Credits: 32		

Health Professions preparation option (D.P.T. preparation):

*SOC 101	Principles of Sociology.....	3
*PSY 101	General Psychology.....	3
*HSM 203	Medical Terminology.....	1
*MAT 123	Introduction to Applied Statistics.....	4
Total Credits: 11		

*Denotes specific prerequisite coursework requiring a minimum grade of B and a G.P.A. of 3.20 to enter the D.P.T. graduate program. Of the four chemistry courses, only the best two must be considered for the prerequisite G.P.A.

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Degree: B.S. for Pre-Med, Pre-Veterinarian, Pre-Dental, Pre-Pharmacy, and Pre-Chiropractic

Course Requirements for the Major:

In the specific areas of concentration:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 302	Genetics.....	4
BIO 302L	Genetics Lab.....	0
BIO 303	Biochemistry.....	3
BIO 303L	Biochemistry Laboratory.....	1
BIO 312	Molecular Cell Biology.....	4

Total Credits: 20*Biology electives chosen from: (18 credits)*

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
BIO 216	Marine Biology.....	3
BIO 217	Animal Handling.....	3
BIO 218	Invertebrate Zoology.....	4
BIO 218L	Invertebrate Zoology Lab.....	0
BIO 229	Ecology.....	4
BIO 229L	Ecology Lab.....	0
BIO 230	Foundations of Environmental Science.....	4
BIO 230L	Foundations of Environmental Science.....	0
BIO 231	Environmental Geology.....	4
BIO 231L	Environmental Geology Lab.....	0
BIO 242	Evolution.....	3
BIO 304	Microscopic Anatomy.....	4
BIO 304L	Microscopic Anatomy Lab.....	0
BIO 309	Virology.....	3
BIO 310	Immunology.....	3
BIO 314	Botany.....	4
BIO 317	Comparative Anatomy.....	4
BIO 317L	Comparative Anatomy Lab.....	0
BIO 320	Developmental Biology.....	4
BIO 320L	Dev Biology Lab.....	0
BIO 330	Environmental Microbiology.....	4
BIO 330L	Environmental Microbiology Lab.....	0
BIO 331	Conservation Biology.....	4
BIO 331L	Conservation Biology Lab.....	0
BIO 332	Environmental Health.....	3
BIO 335	Pharmacology I.....	3
BIO 336	Pharmacology II.....	3
BIO 339	Human Gross Anatomy.....	6
BIO 339L	Gross Anat Lab.....	0
BIO 350	Fund of Genomics, Proteomics & Bioinformatics.....	3

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BIO 351	Computational Biology.....	4
BIO 351L	Computational Biology Lab.....	0
BIO 375	Math Modeling in Biology.....	3
BIO	Special Topics in Biology.....	3-4
389-390		
BIO	Research.....	1-3
407-410		
BIO	Independent Study.....	1-3
479-480		
BIO 659	Advanced Physiology I.....	3
BIO 660	Advanced Physiology II.....	3

Total Credits: 103-108

In other academic areas required for the major:

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
CHE 220	Organic Chemistry II.....	3
CHE 220L	Organic Chemistry II Lab.....	1
MAT 125	Calculus I.....	4
MAT 126	Calculus II.....	4
PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1

Total Credits: 32

Major requirements: 70

Other core requirements: 39

Free electives (including core electives): 11

Total: 120

MATHEMATICS B.A.

B.A. Program

This program has fewer required courses in mathematics than the Mathematics BS, so students have more free credits to explore other disciplines or further expand their mathematical experience. This program is particularly suited for students who wish to combine mathematics with another major.

Admission Requirements

The B.A. in mathematics requires a minimum SAT score of 1080 (Math and Verbal) (or ACT of 21), a high school average of 85 percent and a rank in the top 50 percent of one's class. Transfer students are required to have a minimum G.P.A. of 2.5.

Students nearly meeting these requirements will be considered for these programs by the department. Students denied immediate acceptance into the mathematics B.S. will be accepted into the mathematics B.A. program if they meet its requirements. These students may be promoted into the mathematics B.S. program after they have sufficiently demonstrated competence (usually after the completion of two semesters).

Program Requirements

Students within the department must maintain a minimum 2.0 G.P.A. in coursework required for their major and taken at D'Youville College. Students must have a minimum grade of B- in MAT 125 and MAT 126. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four non-consecutive semesters. Students who exceed these limits will be dismissed from the major. Students may appeal these decisions on academic status by submitting, in writing to the department chairperson, reasons why exceptional consideration may be justified.

Course Requirements

Mathematics

Degree: B.A.

Course Requirements for the Major:

*MAT 125	Calculus I.....	4
*MAT 126	Calculus II.....	4
MAT 202	Calculus III.....	4
MAT 300	Introduction to Mathematical Reasoning.....	3
MAT 301	Real Analysis I.....	3
MAT 315	Linear Algebra.....	3
MAT 401	Abstract Algebra I.....	3
MAT	One Elective from MAT 302 or MAT 402.....	3
Total Credits:		27

*Courses require a minimum grade of B-.

Mathematics Electives (select from the following, minimum 9 credits):

MAT 303	Foundations of Geometry I.....	3
MAT 304	Foundations of Geometry II.....	3
MAT 310	Foundations of Mathematics.....	3
MAT 318	Discrete Math.....	3
MAT 321	Differential Equations.....	3
MAT 375	Math Modeling in Biology.....	3

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MAT 389	Special Topics.....	1
MAT 402	Abstract Algebra II.....	3
MAT 403	Probability.....	3
MAT 404	Mathematical Statistics.....	3
MAT 407	Senior Seminar I.....	2
MAT 408	Senior Seminar II.....	2
MAT 410	Number Theory.....	3
MAT 412	General Topology.....	3
MAT 414	Complex Analysis.....	3
MAT 417	Introduction to Graph Theory.....	3
MAT 420	Introduction to Linear Models.....	3
MAT 421	Design of Experiments.....	3
MAT 424	Numerical Analysis.....	3
MAT 443	Methods of Teaching Mathematics.....	3
MAT 479	Data Analysis Methods.....	3
MAT 480	Statistical Applications.....	3

Total Credits: 9

In other academic areas required for major:

Select one of the following two sequences:

PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1

Total Credits: 8

OR

PHY 103	Physics for Engineers.....	3
PHY 103L	Physics for Engineers Lab 1.....	1
PHY 104	Physics for Engineers II.....	3
PHY 104L	Physics for Engineers II Lab.....	1

Total Credits: 8

Major requirements: 44

Core requirements: 46

Free electives (including core electives): 30

Total: 120

MATHEMATICS B.S.

B.S. Program

This program is designed to offer a broad exposure to the rich field of mathematics. There are three tracks in the B.S. program: general track, statistics track and applied concentration track. All three tracks are suited for students interested in pursuing graduate work or careers in the mathematical sciences. The general track requires 15 mathematics courses (48 credit hours), consisting of 9 required courses (30 hours) and 6 electives (18 hours). The statistics track, which could lead to further study or careers in statistics or actuarial science, also requires 15 mathematics courses (48 credit hours) with at least 5 of these courses (15 hours) statistically oriented. The applied concentration track requires 11 mathematics courses (36 hours) and 4 courses (12-16 hours) in an area of concentration (e.g. analytics, physics, chemistry, biology, or computer science). The concentration courses must be pre-approved by the Mathematics Curriculum Committee and the Department Chair. Additionally, all three tracks require two semesters of physics with lab (8 credit hours) – either PHY 101, 101L, 102, 102L or PHY 103, 103L, 104, 104L – these physics courses are in addition to the seven credits of core science.

Admission Requirements

The B.S. in mathematics requires a minimum SAT score of 1170 (Math and Verbal) (or ACT of 24), a high school average of 85 percent and a rank in the top 25 percent of one's class. Transfer students are required to have a minimum G.P.A. of 3.0.

The B.A. in mathematics requires a minimum SAT score of 1080 (Math and Verbal) (or ACT of 21), a high school average of 85 percent and a rank in the top 50 percent of one's class. Transfer students are required to have a minimum G.P.A. of 2.5.

Students nearly meeting these requirements will be considered for these programs by the department. Students denied immediate acceptance into the mathematics B.S. will be accepted in to the mathematics B.A. program if they meet its requirements. These students may be promoted into the mathematics B.S. program after they have sufficiently demonstrated competence (usually after the completion of two semesters).

Program Requirements

Students within the department must maintain a minimum 2.0 G.P.A. in coursework required for their major and taken at D'Youville College. Students must have a minimum grade of B- in MAT 125 and MAT 126. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four non- consecutive semesters. Students who exceed these limits will be dismissed from the major. Students may appeal these decisions on academic status by submitting, in writing to the department chairperson, reasons why exceptional consideration may be justified.

For students wishing to enter the master's program in education/ certification in education: The education program will allow up to three graduate courses to be taken while the student is an undergraduate. If a student wishes to take the entire three courses, two must fall in the senior's final semester as an undergraduate. Further, it is expected that all juniors and seniors wishing to take graduate courses show substantial evidence of academic progress toward their undergraduate degree. Students may not take graduate courses in lieu of required courses by the program. Students must maintain a 2.75 G.P.A. to take graduate courses.

Course Requirements

Mathematics

Degree: B.S. (General Track)

Course Requirements for the Major:

*MAT 125	Calculus I.....	4
*MAT 126	Calculus II.....	4
MAT 202	Calculus III.....	4
MAT 300	Introduction to Mathematical Reasoning.....	3
MAT 301	Real Analysis I.....	3

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MAT 302	Real Analysis II.....	3
MAT 315	Linear Algebra.....	3
MAT 401	Abstract Algebra I.....	3
MAT 402	Abstract Algebra II.....	3

Total Credits: 30

*Courses require a minimum grade of B-.

Mathematics Electives (select from the following, minimum 18 credits):

MAT 303	Foundations of Geometry I.....	3
MAT 304	Foundations of Geometry II.....	3
MAT 310	Foundations of Mathematics.....	3
MAT 318	Discrete Math.....	3
MAT 321	Differential Equations.....	3
MAT 375	Math Modeling in Biology.....	3
MAT 389	Special Topics.....	1
MAT 403	Probability.....	3
MAT 404	Mathematical Statistics.....	3
MAT 407	Senior Seminar I.....	2
MAT 408	Senior Seminar II.....	2
MAT 410	Number Theory.....	3
MAT 412	General Topology.....	3
MAT 414	Complex Analysis.....	3
MAT 417	Introduction to Graph Theory.....	3
MAT 420	Introduction to Linear Models.....	3
MAT 421	Design of Experiments.....	3
MAT 424	Numerical Analysis.....	3
MAT 443	Methods of Teaching Mathematics.....	3
MAT 479	Data Analysis Methods.....	3
MAT 480	Statistical Applications.....	3

Total Credits: 18

In other academic areas required for major:

Select one of the following two sequences:

PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1

Total Credits: 8

OR

PHY 103	Physics for Engineers.....	3
PHY 103L	Physics for Engineers Lab 1.....	1
PHY 104	Physics for Engineers II.....	3
PHY 104L	Physics for Engineers II Lab.....	1

Total Credits: 8

Major requirements: 56

Core requirements : 46

Free electives (including core electives): 18

Total: 120

Mathematics

Degree: B.S. (Statistics Track)

Course Requirements for the Major:

*MAT 125	Calculus I.....	4
*MAT 126	Calculus II.....	4
MAT 202	Calculus III.....	4
MAT 300	Introduction to Mathematical Reasoning.....	3

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MAT 301	Real Analysis I.....	3
MAT 315	Linear Algebra.....	3
MAT 401	Abstract Algebra I.....	3
MAT 403	Probability.....	3
MAT 404	Mathematical Statistics.....	3

Total Credits: 30

*Courses require a minimum grade of B-.

Statistics Electives (select three of the following):

MAT 420	Introduction to Linear Models.....	3
MAT 421	Design of Experiments.....	3
MAT 479	Data Analysis Methods.....	3
MAT 480	Statistical Applications.....	3

Total Credits: 9*Mathematics Electives (select from the following, minimum 9 credits):*

MAT 303	Foundations of Geometry I.....	3
MAT 304	Foundations of Geometry II.....	3
MAT 310	Foundations of Mathematics.....	3
MAT 318	Discrete Math.....	3
MAT 321	Differential Equations.....	3
MAT 375	Math Modeling in Biology.....	3
MAT 389	Special Topics.....	1
MAT 402	Abstract Algebra II.....	3
MAT 407	Senior Seminar I.....	2
MAT 408	Senior Seminar II.....	2
MAT 410	Number Theory.....	3
MAT 412	General Topology.....	3
MAT 414	Complex Analysis.....	3
MAT 417	Introduction to Graph Theory.....	3
MAT 420	Introduction to Linear Models.....	3
MAT 421	Design of Experiments.....	3
MAT 424	Numerical Analysis.....	3
MAT 443	Methods of Teaching Mathematics.....	3
MAT 479	Data Analysis Methods.....	3
MAT 480	Statistical Applications.....	3

Total Credits: 9

In other academic areas required for major:

Select one of the following two sequences:

PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1

Total Credits: 8

OR

PHY 103	Physics for Engineers.....	3
PHY 103L	Physics for Engineers Lab 1.....	1
PHY 104	Physics for Engineers II.....	3
PHY 104L	Physics for Engineers II Lab.....	1

Total Credits: 8**Major requirements: 56****Core requirements: 46****Free electives (including core electives): 18****Total: 120**

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Degree: B.S. (Applied Concentration Track)

Course Requirements for the Major:

*MAT 125	Calculus I.....	4
*MAT 126	Calculus II.....	4
MAT 202	Calculus III.....	4
MAT 300	Introduction to Mathematical Reasoning.....	3
MAT 301	Real Analysis I.....	3
MAT 315	Linear Algebra.....	3
MAT 401	Abstract Algebra I.....	3

Total Credits: 24

*Courses require a minimum grade of B-.

Mathematics Electives (select from the following, minimum 12 credits):

MAT 303	Foundations of Geometry I.....	3
MAT 304	Foundations of Geometry II.....	3
MAT 310	Foundations of Mathematics.....	3
MAT 318	Discrete Math.....	3
MAT 321	Differential Equations.....	3
MAT 375	Math Modeling in Biology.....	3
MAT 389	Special Topics.....	1
MAT 402	Abstract Algebra II.....	3
MAT 403	Probability.....	3
MAT 404	Mathematical Statistics.....	3
MAT 407	Senior Seminar I.....	2
MAT 408	Senior Seminar II.....	2
MAT 410	Number Theory.....	3
MAT 412	General Topology.....	3
MAT 414	Complex Analysis.....	3
MAT 417	Introduction to Graph Theory.....	3
MAT 420	Introduction to Linear Models.....	3
MAT 421	Design of Experiments.....	3
MAT 424	Numerical Analysis.....	3
MAT 443	Methods of Teaching Mathematics.....	3
MAT 479	Data Analysis Methods.....	3
MAT 480	Statistical Applications.....	3

Total Credits: 12

In other academic areas required for major:

Select one of the following two sequences:

PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1

Total Credits: 8

OR

PHY 103	Physics for Engineers.....	3
PHY 103L	Physics for Engineers Lab 1.....	1
PHY 104	Physics for Engineers II.....	3
PHY 104L	Physics for Engineers II Lab.....	1

Total Credits: 8

Four courses in the area of concentration* (200+ level): 12-16

Major requirements: 56-60

Core requirements: 46

Free electives (including core electives): 18-14

Total: 120

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*Concentration courses must be pre-approved by the Mathematics Curriculum Committee and the chair of the department (Suggested concentrations: analytics, biology, chemistry, computer science or physics).

BUSINESS

Business Department

D'Youville College, under the auspices of the department of business, offers bachelor degrees in accounting and business management. An accelerated program, the advance program in business management, is also offered to working adults. In addition, the department offers a combined five-year bachelor's/master's degree in international business.

The bachelor's/master's degree in international business combines specialized training in international business with a strong foundation in a foreign language, research, communication, ethics and interpersonal skills. Rapid changes in the global economy and the explosive growth in international trade and investment make it necessary that managers be trained in the following:

- Understanding for business practices,
- Managing cultural differences, and
- Communicating in foreign languages.

Top executives of international business confirm the need for managers with international business training, especially at the master's level. Graduates of this program will be able to pursue worldwide employment with the following:

- Multinational companies,
- International financial institution,
- Government agencies,
- Management consulting firms,
- Trading or transportation companies, and
- Colleges and universities.

The bachelor of science degree in business management provides students with knowledge of the various phases of management. The program creates a total experience in which students develop abilities, knowledge and attitudes which will help them perform as competent and responsible business managers. The curriculum prepares the student by emphasizing a firm basis of liberal arts and a common body of knowledge about management responsibilities.

The bachelor of science degree in accounting prepares the student to work in the fields of public accounting, private corporate accounting and financial management. The student who selects accounting as the field of concentration is trained in advanced principles in various systems, in cost analysis and in auditing and tax procedures. The program qualifies the student to sit for the Certified Public Accountancy examination in the majority of states, including New York.

The business department also offers an advanced master's program in international business and a master's degree in business administration (MBA). Those interested can refer to the graduate catalog for additional information.

ACCOUNTING B.S.

Overview

The bachelor of science degree in accounting prepares the student to work in the fields of public accounting, private corporate accounting, financial accounting, or governmental or institutional accounting. The program is accredited by the [International Assembly of Collegiate Business Education \(IACBE\)](#). Students wishing to major in accounting must have at least three years of high school mathematics.

Students who specialize in accounting must take MGT 304; LAW 303 and 304; ACC 211, 212, 311, 312, 321, 322, 401, 404, 417, 421 and 444; and two electives from ACC 389, 390, 403 WIP, 420; CSC 110 or 151; ECO 201, 202, 207 and 328; MGT 411. All accounting majors take ACC 444 (internship) for a minimum of 3 credit hours. A waiver of this requirement will be given only in exceptional circumstances as determined by the department chair. If a waiver is granted, the student must take another minimum 3-credit course stipulated by the department chairman in consultation with the student's advisor.

A student must earn at least a C in each course required for the major. A minimum of 15 credits in accounting courses and at least half (30) of the credits in the major must be earned at D'Youville. A student may repeat no more than three major courses in the total program.

Admission Requirements

Admission requirements for applicants entering as freshmen are as follows:

1. Combined SAT scores of at least 1,080 (math and verbal) or 21 ACT
2. A high school average of at least 85 percent
3. High school rank in the upper half of class

Students must also demonstrate successful completion of two years of mathematics. One year of foreign language is recommended, but not mandatory. Although D'Youville does not mandate that letters of recommendation or a letter of intent to study a specific discipline be included with the application, students applying to the international business combined B.S./ M.S. program are strongly advised to include these documents with their application.

The admission requirement for transfer students is a minimum G.P.A. of 2.5. Transfer students are also strongly advised to include letters of recommendation and a letter of intent with their application. Students with a G.P.A. of lower than 2.5 may be considered for conditional acceptance on an individual basis. Conditionally accepted students can matriculate after completing four undergraduate or graduate courses, as appropriate, with a grade of B or better.

Academic Regulations

To be in good standing, students must do the following:

1. Maintain term (semester/summer) and cumulative averages of 2.0.
2. Maintain a minimum grade of C in all 100- to 400-level courses required in the major and for all other courses required for the major.
3. Students experiencing academic difficulties may be required to decelerate their progress until an acceptable level of general academic performance is achieved. Permission to decelerate in the program must be obtained from the chair of the department of business.
4. Students at the undergraduate level can be placed on program probation a maximum of two consecutive terms or a total of three nonconsecutive terms. Students who exceed these limits are dismissed.

Academic Probation

A student will be placed on program academic probation when there is failure to satisfy specific program academic standards or regulations. A student will be placed on academic probation for the two full-time terms (i.e., semesters and/or summers) which

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immediately follow the date of probation. All students on program academic probation must meet the academic standards for their classification (undergraduate/graduate). Failure to meet the academic standards during a probationary period will result in dismissal from the program.

Students placed on academic probation are not permitted to advance to subsequent terms of study until the academic deficiency which resulted in the probation status has been remedied. The student will remain on probation for two terms in which full-time coursework, or its equivalent, is satisfactorily completed.

Students may appeal the decision of dismissal from the accounting program to the chair of the department of business. The appeal is initiated with a letter from the student to the department chair that describes the extenuating circumstances that limited academic performance. The department chair then presents the appeal to the business faculty for consideration. If the appeal is accepted, the student will remain on program academic probation for two full-time terms and must satisfy the criteria of probation.

Student Conduct

Students enrolled in the D'Youville College business programs are expected to demonstrate high standards of personal behavior and professional conduct in the academic and fieldwork assignments. Academic dishonesty of any form will not be tolerated by the program faculty. College policy regarding academic dishonesty will be followed with the recommendation that the offender be dismissed from the business program.

Course Requirements

Accounting

Degree: B.S.

Course Requirements for the Major:

ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
ACC 417	Personal Computers for Accountants.....	3
ACC 444	Accounting Internship.....	3
MGT 304	Communicating in Organizations.....	3
LAW 303	Business Law I.....	3
LAW 304	Business Law II.....	3
ECO 201	Macroeconomics.....	3
ECO 202	Microeconomics.....	3
ECO 207	Statistics.....	3
MGT 411	International Business.....	3

Total Credits: 33

Requirements for the accounting major:

ACC 311	Intermediate Accounting I.....	3
ACC 312	Intermediate Accounting II.....	3
ACC 321	Tax Accounting.....	3
ACC 322	Cost Accounting.....	3
ACC 401	Auditing.....	3
ACC 404	Advanced Accounting.....	3
ACC 421	Corporate Finance.....	3
ECO 328	Money and Banking.....	3
*ACC	Two Electives from ACC 390, ACC 403, or ACC 420.....	6

Total Credits: 30

Total Credits for Major: 63

Core Requirements & Electives: 57

Total Credits: 120

ACCOUNTING/INTERNATIONAL BUSINESS (B.S.+ M.S.)

Overview

The revised section 52.13 (b)(2) of the Accounting Regulations requires that “on or after August 1, 2004, public accountancy programs registered for licensure purposes must be baccalaureate or higher degree programs that, by requisites or prerequisites, consist of at least 150 semester hours or their equivalent.” These 150 hours must include a minimum of 33 semester (or equivalent) hours in the professional accounting content area, a minimum of 36 semester (or equivalent) hours in the general business content area and a minimum of 60 semester (or equivalent) hours in the liberal arts and sciences content area. The accounting program at D’Youville College fulfills these requirements by combining its existing B.S. in accounting program with its M.S. in international business program. The program is accredited by the [International Assembly of Collegiate Business Education \(IACBE\)](#).

Admissions Requirements

Admission requirements for applicants entering as freshmen are as follows:

1. Combined SAT scores of at least 1080 (math and verbal) or 21 ACT,
2. High school average of at least 85 percent,
3. High school ranking in the upper half of class.

Students must also demonstrate successful completion of two years of mathematics. One year of foreign language is recommended, but not mandatory. Although D’Youville does not mandate that letters of recommendation or a letter of intent to study a specific discipline be included with the application, students applying to the accounting and international business B.S./M.S. program are strongly advised to include these documents with their application.

The admission requirement for transfer students is a minimum G.P.A. of 2.5. Transfer students are also strongly advised to include letters of recommendation and a letter of intent with their application. Students with a G.P.A. of lower than 2.5 may be considered for conditional acceptance on an individual basis. Conditionally accepted students can matriculate after completing four undergraduate or graduate courses, as appropriate, with a grade of B or better.

Applicants holding other baccalaureate degrees at the time of admission are not required to satisfy the college’s core curriculum. However, foreign language (12 credits), economics (ECO 201 and ECO 202) and accounting (ACC courses) requirements must be met prior to advancement to the fifth year of study. In addition, it is highly recommended that transfer students gain competence in word processing and other basic computing skills prior to entering the program. Please note that students are admitted directly into the program and do not have to reapply for admission to the upper division of the program.

Undergraduate Academic Regulations

To be in good standing during the first three years of the program, students are responsible for the following:

1. Maintain term (semester/summer) and cumulative averages of 2.0
2. They must maintain a minimum grade of C in all 100- to 400- level courses required in the major and for all other courses required for the major. Students who fail to obtain a grade of C in a required course for the major at the undergraduate level will not be permitted to enroll in major courses having an IB prefix at the 500 and 600 levels until the course is repeated with a minimum grade of C. If space is available, a course must be repeated with permission of the program faculty the next time it is offered. A course may be repeated only once.
3. Undergraduate program students experiencing academic difficulties may be required to decelerate their progress until an acceptable level of general academic performance is achieved. Permission to decelerate in the program must be obtained from the chair of the department of business.
4. Students at the undergraduate level can be placed on program probation a maximum of two consecutive terms or a total of three nonconsecutive terms. Students who exceed these limits are dismissed.

Graduate Academic Regulations

To be in good standing during the fourth and fifth years of the program, students are responsible for the following:

1. A student must maintain a minimum semester/summer and cumulative average of at least 3.0.
2. No more than a total of two courses with grades lower than B are applicable to the graduate level. This policy applies to all 500- and 600-level courses. A grade of C- or lower is not applicable to the degree in international business.
3. Students who fail to achieve a minimum grade of C for any course included in the graduate portion of the program (500- or 600-level courses) might not be permitted to enroll for subsequent semesters of the graduate portion until the course has been successfully repeated with a minimum grade of C.
4. Students can be on probation for one term during their graduate portion of the program. Probation is for one full-time term. Dismissal occurs if, within the one term probation period, program requirements are not met (GPA 3.0, and no more than two courses below a grade of "B").
5. Students are required to obtain permission of program faculty prior to registration in fieldwork internships included in the graduate portion of the program. Permission may be denied on the basis of demonstrated weakness or inability to meet the program's academic or professional standards.
6. All fieldwork assignments must be completed with a satisfactory (S) grade. Students receiving an unsatisfactory (U) grade for a fieldwork assignment must receive formal approval of program faculty to repeat the fieldwork experience. A student will not be permitted to repeat an unsatisfactorily completed fieldwork more than once.

Academic Probation

A student will be placed on program academic probation when there is failure to satisfy program academic standards or regulations. A student will be placed on academic probation for the immediate term (semester/summer) following the date of probation. All students on program academic probation must meet the academic standards for their classification (undergraduate/graduate). Failure to meet the academic standards during a probational period will result in dismissal from the program.

Students may appeal a decision of dismissal from the international business program to the chair of the department of business. The appeal is initiated with a letter from the student to the chair of the department that describes extenuating circumstances that limited academic performance. The chair of the department will render a decision and inform the student of that decision via written letter.

Student Conduct

Students enrolled in the D'Youville College business programs are expected to demonstrate high standards of personal behavior and professional conduct in the academic and fieldwork assignments. Academic dishonesty of any form will not be tolerated by the program faculty. College policy regarding academic dishonesty will be followed with the recommendation that the offender be dismissed from the business program.

International Business Courses

Graduate courses (500 and 600 levels) offered by the international business program are listed below. Undergraduate college-core and business-core courses, such as management, law or foreign language, are described in the appropriate sections for each discipline. Graduate courses with the prefix GRA are described in the graduate catalog.

Course Requirements

Accounting/International Business

Degree: 5-Year B.S. in Accounting/M.S. in International Business

Course Requirements for the Major:

100- to 400-level requirement as specified by the program

ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
ACC 311	Intermediate Accounting I.....	3
ACC 312	Intermediate Accounting II.....	3
ACC 321	Tax Accounting.....	3
ACC 322	Cost Accounting.....	3

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ACC 401	Auditing.....	3
ACC 404	Advanced Accounting.....	3
ACC 417	Personal Computers for Accountants.....	3
ACC 421	Corporate Finance.....	3
ACC 444	Accounting Internship.....	3
*ACC	Two Electives from ACC 390, ACC 403, or ACC 420.....	6
ECO 207	Statistics.....	3
ECO 328	Money and Banking.....	3
LAW 303	Business Law I.....	3
LAW 304	Business Law II.....	3
MGT 304	Communicating in Organizations.....	3
MGT 407	Operations Management.....	3
MGT 411	International Business.....	3

Total Credits: 60*500 - 600 level requirements as specified by the program*

IB 501	Theoretical Concepts in Global Economics.....	3
IB 503	International Econ Finance & Accounting.....	3
IB 505	International Negotiation & Comm. Communications....	3
IB 602	Multinational Corporate Finance.....	3
IB 604	International Marketing & Research.....	3
IB 608	Multinational Strategic Management.....	3
IB 610	International Financial Reporting.....	3
IB 612	International Bus Elective.....	3
IB 620	International Business Fieldwork.....	3
GRA 600	Theory Development.....	3
GRA 621	Applied Research Methods.....	3
GRA 622	Applied Research Project Seminar.....	3

Total Credits: 36**College Core Requirements: 58****100-400 Level Requirements Specified by the Program: 60****500-600 Level Requirements Specified by the Program: 36****Total: 154**

BUSINESS MANAGEMENT B.S.

Overview

The business management program provides students with the knowledge and skills necessary to become competent and responsible managers.

The degree conferred is the bachelor of science in business management. The curriculum prepares the student by emphasizing a firm base of liberal arts and a common body of knowledge about management responsibilities. Students graduate from the program having developed a coherent and dynamic personal philosophy about managing, an understanding of the ever-changing technological world, and a strong sense of social responsibility. The management curriculum serves students wishing to obtain professional degrees. It prepares students for careers as executives and specialists in business and other complex organizations.

All business management majors take MGT 316. All accounting majors take ACC 417. All business management majors must take MGT 444 (Internship) for a minimum of three credit-hours. However, this course can also be taken for six credit hours or the student may take MGT 445 for 6 to 12 credit hours. A waiver of this requirement will be given only in exceptional circumstances as determined by the department chair. If a waiver is granted, the student must take another minimum three-credit course stipulated by the department chair in consultation with the student's advisor. The above stipulations also apply for accounting students who must take ACC 444 Internship for a minimum of three-credit hours. MGT 316 or ACC 417 will NOT satisfy the computer requirement in the core.

Students must earn a grade of C or better in each course in the major. One half of the major (30 credits) must be earned at D'Youville. Students may repeat a major course once. Students may repeat no more than three major courses in their total program.

ADVANCE Program in Business Management

Along with the traditional B.S. in business management, the department of business also offers a business management degree specifically designed for working adults who want to get ahead in their careers, broaden their credentials to have more career choices, or want to earn a baccalaureate degree.

Department cohorts or class groups begin several times during the academic year. Courses are scheduled in the evenings to fit busy lifestyles. The program places particular emphasis on self development, communication, problem-solving competence, supervision, human resource management, and ethical leadership. It also emphasizes critical thinking and written communication skills.

In addition to the following courses in the ADVANCE modular program, students complete or transfer six additional business courses, as well as meet the requirements for the college core curriculum. Many of these college core courses are offered in modular format.

Admission Requirements

Admission requirements for applicants entering as freshmen are as follows:

1. Combined SAT scores of at least 980 (math and verbal) or 19 ACT
2. A high school average of at least 80 percent
3. High school rank in the upper half of class

Students must also demonstrate successful completion of two years of mathematics. One year of foreign language is recommended, but not mandatory. Although D'Youville does not mandate that letters of recommendation or a letter of intent to study a specific discipline be included with the application, students applying to the international business combined B.S./M.S. program are strongly advised to include these documents with their application.

The admission requirement for transfer students is a minimum G.P.A. of 2.5. Transfer students are also strongly advised to include letters of recommendation and a letter of intent with their application. Students with a G.P.A. of lower than 2.5 may be considered for conditional acceptance on an individual basis. Conditionally accepted students can matriculate after completing four undergraduate or graduate courses, as appropriate, with a grade of B or better.

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Academic Regulations

To be in good standing, students must do the following:

1. Maintain term (semester/summer) and cumulative averages of 2.0
2. Maintain a minimum grade of C in all 100- to 400-level courses required in the major and for all other courses required for the major.
3. Undergraduate program students experiencing academic difficulties may be required to decelerate their progress until an acceptable level of general academic performance is achieved. Permission to decelerate in the program must be obtained from the chair of the department of business.
4. Students at the undergraduate level can be placed on program probation a maximum of two consecutive terms or a total of three nonconsecutive terms. Students who exceed these limits are dismissed.

Academic Probation

A student will be placed on program academic probation when there is failure to satisfy specific program academic standards or regulations. A student will be placed on academic probation for the two full-time terms (i.e., semesters and/or summers) which immediately follow the date of probation. All students on program academic probation must meet the academic standards for their classification (undergraduate/graduate). Failure to meet the academic standards during a probationary period will result in dismissal from the program.

Students placed on academic probation are not permitted to advance to subsequent terms of study until the academic deficiency which resulted in the probation status has been remedied. The student will remain on probation for two terms in which full-time coursework, or its equivalent, is satisfactorily completed.

Students may appeal the decision of dismissal from the accounting program to the chair of the department of business. The appeal is initiated with a letter from the student to the department chair that describes the extenuating circumstances that limited academic performance. The department chair then presents the appeal to the business faculty for consideration. If the appeal is accepted, the student will remain on program academic probation for two full-time terms and must satisfy the criteria of probation.

Student Conduct

Students enrolled in the D'Youville College business programs are expected to demonstrate high standards of personal behavior and professional conduct in the academic and fieldwork assignments. Academic dishonesty of any form will not be tolerated by the program faculty. College policy regarding academic dishonesty will be followed with the recommendation that the offender be dismissed from the business program.

Course Requirements

Advance Modules

Degree: B.S. in Business Management

Course Requirements for the Major:

In the specific areas of concentration:

MGT 389	Special Topics in Management.....	3
MGT 305	Principles of Management.....	3
MGT 304	Communicating in Organizations.....	3
HRM 309	Principles of Human Resources Management.....	3
MGT 401	Organizational Behavior.....	3
ECO 207	Statistics.....	3
ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
MGT 315	Financial Management.....	3
MKT 304	Principles of Marketing.....	3
MGT 318	Information and Communication Tech Mgt.....	3
MGT 411	International Business.....	3
MGT 407	Operations Management.....	3
MGT 412	Mgmt Strategy and Policy.....	3

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MGT 444	Internship.....	3-6
		Total Credits: 45-48

Six additional business courses:

ECO 201	Macroeconomics.....	3
ECO 202	Microeconomics.....	3
LAW 303	Business Law I.....	3
MGT 316	Pc & E-Commerce for Managers.....	3
MGT	Two Electives at the 300-400 level.....	6
		Total Credits: 18

Major: 63

Core requirements and electives: 57

Total: 120

Management

Degree: B.S. in Business Management

Course Requirements for the Major:

ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
MGT 304	Communicating in Organizations.....	3
ECO 201	Macroeconomics.....	3
ECO 202	Microeconomics.....	3
ECO 207	Statistics.....	3
LAW 303	Business Law I.....	3
MGT 316	Pc & E-Commerce for Managers.....	3
MGT 444	Internship.....	3
MGT 411	International Business.....	3
HRM 309	Principles of Human Resources Management.....	3
MGT 305	Principles of Management.....	3
MKT 304	Principles of Marketing.....	3
MGT 401	Organizational Behavior.....	3
MGT 407	Operations Management.....	3
MGT 315	Financial Management.....	3
MGT 318	Information and Communication Tech Mgt.....	3
MGT 412	Mgmt Strategy and Policy.....	3
MGT	Three Electives at the 300-400 level.....	9
		Total Credits: 63

Major: 63

Core requirements and electives: 57

Total: 120

Students must earn a grade of C or better in each course in the major. One-half of the major (30 hours) must be earned at D'Youville. A student may repeat a major course once. A student may repeat no more than three major courses in the total program.

To qualify for an internship, students must have achieved a G.P.A. of 2.5 and receive the recommendation of a faculty member in their major field. Students who do not meet these requirements may apply for a waiver. A waiver of the requirement will be granted only in exceptional circumstances as determined by the department chair. If a waiver is granted, the student must take another minimum three-credit course stipulated by the department chair in consultation with the student's advisor.

INTERNATIONAL BUSINESS B.S./M.S.

Overview

The bachelor's/master's degree in international business combines specialized training in international business with a strong foundation in a foreign language, quantitative research, finance and accounting, communication, ethics and interpersonal skills. Rapid changes in the global economy and the explosive growth in international trade and investment make it necessary that managers be trained in the following:

- Understanding and managing strategic and functional areas of business,
- Managing cultural differences in the global environment and
- Communicating in foreign languages.

Top executives of international business confirm the need for managers with international business training, especially at the master's level. Graduates of this program will be able to pursue worldwide employment with the following:

- Multinational companies as well as small exporting firms
- International financial institutions
- Government agencies such as U.S. Commerce Department and Ex-Im Bank
- Management consulting firms and export management companies
- Logistics and transportation companies
- Colleges and universities

Students combine theoretical concepts learned in the classroom with practical training gained through fieldwork experiences. Fieldwork options include business internship opportunities with U.S. offices of multinational corporations as well as opportunities to combine work and study abroad. D'Youville admits high school and transfer students directly into the combined B.S./M.S. program in international business and guarantees a place in the class as long as all of the academic requirements are met.

The international business program at D'Youville College has been approved and registered by the New York State Department of Education. Students who successfully complete all requirements specified by the five-year course of study will be awarded B.S. and M.S. degrees in international business at the time of graduation. The program is accredited by the [International Assembly of Collegiate Business Education](#).

The program's first two years are devoted primarily to studying arts, humanities and science to satisfy the general education core requirements of the college's baccalaureate degree and certain prerequisite requirements specified by the program curriculum (such as macroeconomics, microeconomics and four semesters of foreign language). The third year is dedicated to the business core curriculum. Graduate courses in international business begin in the fourth year and contain relevant research, analytical and communications components.

Required international fieldwork begins in the summer session between the fourth and fifth years of study. Fieldwork assignments are arranged on an individual student basis. Assignments may involve developing exporting or importing strategies, performing advertising or marketing research, developing international financing proposals or developing international policies for organizations interested in internationalizing operations. Students have an opportunity to extend fieldwork into the fifth year of study.

Admission Requirements

Admission requirements for applicants entering as freshmen are as follows:

1. Combined SAT scores of at least 1,080 (math and verbal) or 21 ACT
2. A high school average of at least 85 percent
3. High school rank in the upper half of class

Students must also demonstrate successful completion of two years of mathematics. One year of foreign language is recommended, but not mandatory. Although D'Youville does not mandate that letters of recommendation or a letter of intent to study a specific

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discipline be included with the application, students applying to the international business combined B.S./ M.S. program are strongly advised to include these documents with their application.

The admission requirement for transfer students is a minimum G.P.A. of 2.5. Transfer students are also strongly advised to include letters of recommendation and a letter of intent with their application. Students with a G.P.A. of lower than 2.5 may be considered for conditional acceptance on an individual basis. Conditionally accepted students can matriculate after completing four undergraduate or graduate courses, as appropriate, with a grade of B or better.

Applicants holding other baccalaureate degrees at the time of admission are not required to satisfy the college's core curriculum. However, foreign language and economics requirements must be met prior to advancement to the fourth year of study. In addition, it is highly recommended that transfer students gain competence in word processing and other basic computing skills prior to entering the program.

Please note that students are admitted directly into the program and do not have to re-apply for admission to the graduate portion of the program.

Academic Regulations

The academic regulations listed here must be met by full-time and part-time students.

Undergraduate Academic Requirements

To be in good standing during the first three years of the program, students are responsible for the following:

1. Maintain term (semester/summer) and cumulative averages of 2.0
2. They must maintain a minimum grade of C in all 100- to 400- level courses required in the major and for all other courses required for the major. Students who fail to obtain a grade of C in a required course for the major at the undergraduate level will not be permitted to enroll in major courses having an IB prefix at the 500 and 600 levels until the course is repeated with a minimum grade of C. If space is available, a course must be repeated with permission of the program faculty the next time it is offered. A course may be repeated only once.
3. Undergraduate program students experiencing academic difficulties may be required to decelerate their progress until an acceptable level of general academic performance is achieved. Permission to decelerate in the program must be obtained from the chair of the department of business.
4. Students at the undergraduate level can be placed on program probation a maximum of two consecutive terms or a total of three nonconsecutive terms. Students who exceed these limits are dismissed.

Graduate Academic Requirements

To be in good standing during the fourth and fifth years of the program, the following are required:

1. A student must maintain a minimum semester/summer and cumulative average of at least 3.0.
2. No more than a total of two courses with grades lower than B are applicable to the graduate level. This policy applies to all 500- and 600-level courses. A grade of C- or lower is not applicable to the degree in international business.
3. Students who fail to achieve a minimum grade of C for any course included in the graduate portion of the program (500- or 600-level courses) might not be permitted to enroll for subsequent semesters of the graduate portion until the course has been successfully repeated with a minimum grade of C.
4. Students can be on probation for one term during their graduate portion of the program. Probation is for one full-time term. Dismissal occurs if, within the one term probation period, program requirements are not met (GPA 3.0, and no more than two courses below a grade of "B")
5. Students are required to obtain permission of program faculty prior to registration in fieldwork internships included in the graduate portion of the program. Permission may be denied on the basis of demonstrated weakness or inability to meet the program's academic or professional standards.
6. All fieldwork assignments must be completed with a satisfactory (S) grade. Students receiving an unsatisfactory (U) grade for a fieldwork assignment must receive formal approval of program faculty to repeat the fieldwork experience. A student will not be permitted to repeat an unsatisfactorily completed fieldwork more than once.

Student Responsibilities

The international business program is a demanding program in coursework and time commitment. Students enrolled in the program must complete two summer sessions in addition to the ten full semesters of coursework in order to complete the program in five years.

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Fieldwork assignments, scheduled in the fourth and fifth years of study, may be completed at home or abroad and may require an additional expense for travel and room and board.

Academic Probation

A student will be placed on program academic probation when there is failure to satisfy program academic standards or regulations. A student will be placed on academic probation for the immediate term (semester/summer) following the date of probation. All students on program academic probation must meet the academic standards for their classification (undergraduate/graduate). Failure to meet the academic standards during a probational period will result in dismissal from the program.

Students may appeal a decision of dismissal from the international business program to the chair of the department of business. The appeal is initiated with a letter from the student to the chair of the department that describes extenuating circumstances that limited academic performance. The chair of the department will render a decision and inform the student of that decision via written letter.

Student Conduct

Students enrolled in the D'Youville College international business program are expected to demonstrate high standards of personal behavior and professional conduct in the academic and fieldwork assignments. Academic dishonesty of any form will not be tolerated by the program faculty. College policy regarding academic dishonesty will be followed with the recommendation that the offender be dismissed from the international business program.

International Business Courses

Graduate courses (500 and 600 levels) offered by the international business program are listed below. Undergraduate college-core and business-core courses, such as management, law or foreign language, are described in the appropriate sections for each discipline. Graduate courses with the prefix GRA are described in the graduate catalog.

Course Requirements

International Business

Degree: B.S./M.S.

Course Requirements for the Major:

In the specific areas of concentration:

ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
ECO 207	Statistics.....	3
LAW 303	Business Law I.....	3
MGT 304	Communicating in Organizations.....	3
MGT 305	Principles of Management.....	3
MGT 315	Financial Management.....	3
MGT 411	International Business.....	3
MGT	Two Electives from 300-400 level.....	6
MKT 304	Principles of Marketing.....	3
IB 501	Theoretical Concepts in Global Economics.....	3
IB 503	International Econ Finance & Accounting.....	3
IB 505	International Negotiation & Comm. Communications....	3
IB 506	International Management.....	3
IB 602	Multinational Corporate Finance.....	3
IB 604	International Marketing & Research.....	3
IB 605	Legal Environment in International Bus.....	3
IB 607	International Transportation & Logistics.....	3
IB 608	Multinational Strategic Management.....	3
IB 610	International Financial Reporting.....	3
IB 620	International Business Fieldwork.....	3
IB 630	International Fieldwork II.....	3

Total Credits: 69

In other academic areas required for this major:

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ECO 201	Macroeconomics.....	3
ECO 202	Microeconomics.....	3
MAT 123	Introduction to Applied Statistics.....	4
GRA 600	Theory Development.....	3
GRA 601	Research Methodology and Design.....	3
IB 621	International Business Project Seminar I.....	3
IB 622	International Business Project Seminar.....	3
Foreign Language	Four Electives.....	12

Total Credits: 34

Core requirements: 57

100- and 400- level requirements specified by the program: 40

500- and 600- level requirements as specified by the program: 54

Total: 151

CHEMISTRY

Department of Chemistry

The Department of Chemistry is committed to creating a nurturing environment that supports student learning and research.

The faculty members are experts in their field and disseminate that knowledge to students and colleagues alike. The department aims to offer a rigorous and modern curriculum for chemistry majors and minors. Consistent with the mission of D'Youville College, we seek to train leaders both inside and outside of the laboratory.

We prepare chemistry majors with the skills needed to be successful professionally as scientists and educators, or in post-baccalaureate studies. We also serve the campus community by offering introductory science courses that meet liberal arts requirements as well as chemistry courses required for professional degrees at D'Youville.

The department offers classroom, laboratory and research experiences that extend over each of the main areas of chemistry (analytical, inorganic, organic, biochemistry and physical chemistry). Our faculty members are mentors to undergraduate students partaking in research. They work directly and alongside the students during the research experience. Through hands-on experimentation in the chemistry laboratories, students gain valuable experience in a specific area of chemistry. They will have opportunities to present their research at local and national conferences and symposia, engaging fellow students and researchers from across the D'Youville College community to across the nation.

CHEMISTRY B.S.

Overview

The chemistry major at D'Youville prepares students in the traditional foundational areas of chemistry: inorganic, organic, physical, analytical and biochemistry. A degree in chemistry offers a wide variety of career opportunities. You may use your degree to teach high school, enter directly into industry or go to graduate school and become a university professor or a senior researcher in an industrial R&D laboratory. A chemistry degree can also prepare you for post-graduate work in medicine, dentistry, business or law. Fields such as patent law, international law, environmental law, pharmaceutical sales and management are all accessible to students who begin their education with a chemistry degree.

B.S. Program

Students are required to take the following courses with their corresponding laboratories: CHE 101, CHE 102, CHE 219, CHE 220, CHE 303, CHE 311, CHE 312, CHE 331, CHE 332 and CHE 401. In addition, the student must choose to take either CHE 412 or CHE 421. Other required courses include the following: PHY 101, PHY 101L, PHY 102, PHY 102L, MAT 125, MAT 126, MAT 202 and a CSC course.

A chemistry degree combined with a biology minor is an excellent gateway into the medical profession. Many medical school applicants possess chemistry degrees coupled with key biology courses to enhance their submission. These courses are also available to you at D'Youville (e.g., human gross anatomy). Since the chemistry major is housed within the department of math and natural sciences, chemistry students are provided all of the graduate school and medical school entrance examination support as well as the utilization of the pre-medical advisory committee in the department.

Admission Requirements

Admission into the B.S. in chemistry program requires a minimum SAT score of 1080 (or ACT of 21), a high school average of 85 percent and a rank in the top 50 percent of one's class. Transfer students are required to have a minimum G.P.A. of 2.5.

Program Requirements

Students within the department must maintain a minimum of 2.0 G.P.A. in courses taken at D'Youville in coursework required for their major. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four nonconsecutive semesters. Students who exceed these limits will be dismissed from the major. Students may appeal these decisions on academic status by submitting, in writing to the department chairperson, reasons why exceptional consideration may be justified.

Course Requirements

Chemistry

Degree: B.S.

Course Requirements for the Major:

In the specific areas of concentration:

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
CHE 220	Organic Chemistry II.....	3
CHE 220L	Organic Chemistry II Lab.....	1
CHE 303	Biochemistry.....	3

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CHE 303L	Biochemistry Laboratory.....	1
CHE 311	Physical Chemistry I.....	3
CHE 311L	Physical Chemistry I Lab.....	1
CHE 312	Physical Chemistry II.....	3
CHE 312L	Physical Chemistry II Lab.....	1
CHE 331	Analytical Chemistry.....	4
CHE 332	Instrumental Analysis.....	4
CHE 401	Inorganic Chemistry.....	3
CHE	One Elective from CHE 351, CHE 412, or CHE 421.....	3

Total Credits: 42*In other academic areas required for the major:*

PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 102	General Physics.....	3
PHY 102L	Gen Physics Lab II.....	1
MAT 125	Calculus I.....	4
MAT 126	Calculus II.....	4
MAT 202	Calculus III.....	4
CSC	One Elective from CSC 110, CSC 120, CSC 151, or CSC 389-90.....	3

Total Credits: 23**Core Humanities and social science: 36****Chemistry courses: 42****Additional mathematics and natural science courses: 23****Total free electives (includes nine from the core): 21****Total: 122**

DIETETICS

Dietetics Department

The Dietetics Program is a five-year combined B.S./M.S. degree program which meets the knowledge requirements and competencies for entry-level practice as a Registered Dietitian Nutritionist (RDN). The Coordinated Program (CP) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND®) of the Academy of Nutrition and Dietetics. Graduates are awarded a dual B.S./M.S. degree and are eligible to take the national examination to become a registered dietitian (RD) or a registered dietitian nutritionist (RDN).

DIETETICS B.S./M.S.

Overview

The Dietetics Program is a five-year program which meets the knowledge requirements and competencies for entry-level practice as a Registered Dietitian Nutritionist (RDN). The program is divided into two phases: the pre-professional phase (years 1 through 3) and the ACEND® accredited Coordinated Program phase which begins in the summer term following year 3 of study. Students who maintain the college and department academic standards are guaranteed placement in the Coordinated Program. Maximum accreditation class size limit is thirty (30) students per cohort.

The Coordinated Program curriculum offers classroom instruction along with the 1200 hours of supervised practice required to become a RDN. Students gain practical experience in local facilities that support the development of professional skills in medical nutrition therapy, community nutrition and food service management. In addition, the program's concentration in Advanced Nutrition Practice provides higher level coursework and experiences in:

- Treating patients with complex conditions, such as trauma, pediatric hospitalizations, renal failure with complications and nutrition support
- Planning, developing and implementing nutrition intervention programs
- Developing and managing a nutrition business
- Planning and conducting research, including communicating findings of this research. Requirements for program completion include achieving a satisfactory grade in all required courses, completing a thesis and passing a comprehensive examination.

Students who complete all requirements are awarded both a B.S. and a M.S. degree in Dietetics at the time of graduation and are eligible to take the Commission on Dietetic Registration (CDR) national credentialing examination to become a RDN. The Dietetics Program has been approved and registered by the New York State Education Department. In New York State, graduates who obtain the RDN credential are eligible to apply to receive the Certified Dietitian/Nutritionist (CDN) credential. Each graduate receives a verification statement, which documents completion of all academic, supervised practice and degree requirements for the Coordinated Program and D'Youville College.

Accreditation

The Coordinated Program in Dietetics is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND®) of the Academy of Nutrition and Dietetics. ACEND® can be contacted by:

Email: ACEND@eatright.org

Phone: 800/877-1600, ext. 5400

Mail: 120 South Riverside Plaza

Suite 2190, Chicago, IL 60606-6995

Website: <https://www.eatrightpro.org/acend>

Mission Statement

Recognizing the role of the Registered Dietitian Nutritionist (RDN) as the nutrition expert and the key role that nutrition plays in health and well-being, the Coordinated Program strives to serve the community by providing students with the knowledge, skills and experience to meet the challenges of the diverse and changing fields of dietetics. Our intent is to prepare entry-level registered dietitian nutritionists who will become leaders in their fields and fulfill prominent and varied professional roles.

The Coordinated Program supports the principles of academic excellence, service to others, and lifelong learning by fostering the student's professional and personal growth within a broad range of educational and practical experience.

Program Goals and Outcome Measures

Goal 1:

Prepare graduates who are competent for entry-level practice as registered dietitian nutritionists and obtain employment in a variety of nutrition- and dietetics-related positions.

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Outcome Measures:

- Graduate satisfaction with curriculum
- Employer satisfaction with graduates
- Student completion of program
- Pass rate on RDN exam
- Employment of graduates

Goal 2: Prepare graduates who demonstrate a commitment to professional leadership and community service.

Outcome Measures:

- Graduate participation in professional organizations
- Graduate participation in community service

Goal 3: Prepare graduates who are committed to lifelong learning

Outcome Measure:

- Graduate participation in continuing education activities

Outcome data are available on request.

Admission Requirements

Admission requirements reflect the structure of the program as a five-year B.S./M.S. degree. *All applicants are accepted on a competitive, space-available basis, based on the criteria noted below. **Maximum accreditation class size limit is thirty (30) students per cohort.***

A. Freshman applying for admission into the pre-professional phase of the dietetics program must meet the following criteria:

- Combined SAT scores of at least 1080 or composite ACT score of 21;
- High school average of at least 85 percent or 2.85 on a 4.0 scale;
- Successful completion of the following high school courses: two years of math, one year of biology and one year of chemistry.

B. Transfer students applying to the B.S./M.S. program must meet or exceed each of the criteria noted below:

- Minimum 2.75 GPA on a 4.0 scale is required to be accepted into years one and two of the program.
- Minimum 3.0 GPA on a 4.0 scale is required to be accepted into year three of the program.
- Minimum of a C (2.0) grade in all pre-requisite courses for the dietetics major completed at a previous institution (Refer to Course Requirements For the Major below).
- Minimum of a B - (2.67) grade in all dietetics courses at the 100-400 levels completed at a previous institution (Refer to Course Requirements For the Major below).

C. Transfer students applying for admission into the Coordinated Program (CP) must:

Submit an undergraduate D'Youville College application and student essay by February 1 to be considered for acceptance into the start of the next Coordinated Program start date (summer term).

Selection criteria for students who apply to the CP include, but is not limited to:

- Minimum 3.0 GPA on a 4.0 scale is required to be accepted into the CP.
- Minimum of a C (2.0) grade in all pre-requisite courses for the dietetics major completed at a previous institution (Refer to Course Requirements For the Major below).
- Minimum of a B - (2.67) grade in all dietetics courses at the 100-400 levels completed at a previous institution (Refer to Course Requirements For the Major below).
- Personal essay with reference to prior work and volunteer experiences in the field of dietetics.

The D'Youville College Dietetics Program Application Review Committee will review applicants after the February 1 deadline. There will be no early admission granted.

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The Admissions Department will provide written notice to students of acceptance to the CP on or before March 1. Students accepted into the professional phase of the CP must submit a deposit by April 15 in order to secure a seat in the Coordinated Program.

A wait list will be maintained. Students on the wait list will receive notification of placement on the wait list on or before March 1. Applicants on the wait list will be notified of seat availability prior to June 1. Students must commit verbally within 48 hours of receipt of notice of acceptance to retain Coordinated Program seat.

The admissions department will provide written notice to students of acceptance to the coordinated program on or before March 1. Students accepted into the professional phase of the CP must submit a deposit by April 15 in order to secure a seat in the coordinated program.

Acceptance into the Coordinated Program professional phase is based on meeting requirements as noted and availability of an adequate number of quality supervised practice sites.

The 5 year B.S./M.S. curriculum is composed of two phases which extend across five years. The pre-professional phase includes the first three years of study which is comprised of the prerequisites, core curriculum, and didactic preparation for future supervised practice experiences. The ACEND® accredited Coordinated Program professional phase begins the summer after the third year. The Coordinated Program includes continued didactic preparation, all supervised practice experiences (1200 hours), graduate level coursework and completion of the required thesis. Students who do not meet the program's academic and/or professional standards in the pre-professional phase will not be permitted to progress to the Coordinated Program. In addition to general college policies and regulations which apply to all students, academic regulations of the Dietetics Department are applicable to all students regardless of full-time or part-time status.

Dietetics Department Good Academic Standing — All Dietetic Students

1. Students must comply with the good academic standing as noted for their respective year in the program.
2. Students must meet all of the following: **minimum course requirements, overall cumulative GPA requirements, and semester cumulative GPA requirements** to remain in good academic standing. Any department required course may be repeated only once upon the recommendation of the dietetics faculty.
3. In addition to all college academic integrity policies, students are expected to maintain high standards of personal behavior and professional conduct in the academic and supervised practice environments.
4. Professional misconduct or unprofessional behavior in any academic setting will result in failure of the course regardless of course mastery and may result in immediate dismissal from the program.
5. College policy regarding academic dishonesty will be followed.
6. As per college policy, students may repeat any course once. For any additional repeat of any course, permission must be recommended by the department chair and forwarded to the vice president for academic affairs or dean, as appropriate for a final decision.
7. Students who fail a course or do not meet minimum course requirements for a major at D'Youville College may only replace the failure by passing the course at D'Youville College. Only by special permission secured beforehand would a student be allowed to register off campus for a course failed at D'Youville College.
8. Students must successfully pass a comprehensive examination within course DTC 622, Professional Seminar.

Dietetics Department Good Academic Standing — Pre-Professional Phase

Students enrolled in years one, two and three of the dietetics curriculum must maintain:

1. An overall and semester cumulative grade point average (GPA) of at least 2.5 is required in years 1 and 2 of the program.
2. An overall and semester cumulative grade point average (GPA) of at least 3.0 is required in year 3 of the program.
3. A minimum of a C grade (2.0) in all pre-requisite courses for the dietetics major. All of the courses noted in this section must be completed prior to entering the Coordinated Program. These courses include:
 - BIO 107 and BIO 107L
 - BIO 108 and BIO 108L
 - BIO 208
 - BIO 303 and BIO 303L
 - CHE 101 and CHE 101L
 - CHE 102 and CHE 102L
 - CHE 209 and CHE 209L
 - MAT 123
 - MGT 305
4. A 3.0 overall average in dietetics (DTC) courses. A minimum of a B- (2.67) grade is required in all dietetics courses at the 100-400 levels. These courses include:

- DTC 101
- DTC 205
- DTC 210
- DTC 306
- DTC 319
- DTC 327
- DTC 328
- DTC 426

Dietetics Department Good Academic Standing — Professional Phase - Coordinated Program

The Coordinated Program begins in the summer term following year 3 of study. Students enrolled in the Coordinated Program must maintain:

1. Evidence of vaccinations/immunizations and annual history and physical examinations in compliance with Centers for Disease Control (CDC) recommendations for healthcare programs. Requirements **must be completed prior to the start** of the following courses: DTC 420SP, DTC 511SP, DTC 512SP, DTC 631 and DTC 632. Students who do not provide evidence of vaccinations/immunizations, annual history, and physical examinations will not be allowed to enter any supervised practice site which will result in a grade of Unsatisfactory (U) in the respective supervised practice course.
2. A minimum semester GPA of 3.0 is required throughout the Coordinated Program.
3. A minimum grade of B (3.0) is required in all 400, 500 and 600 level courses taken, both Dietetics and college-wide, during the Coordinated Program.
4. In Supervised Practice:
 - a. a minimum of a B grade (3.0), which is equivalent to an S (Satisfactory) grade, is required in the following courses: DTC 410SP, DTC 420SP, DTC 511SP, DTC 512SP, DTC 521SP, DTC 522SP, DTC 631 and DTC 632.
 - b. a supervised practice course can be repeated only once on a space available basis
 - c. any student who must repeat coursework, decelerate or attend part-time must be aware that maximum accreditation class size limit is thirty (30) students per cohort. Actions such as these may alter the start date of the coordinated program cohort and the student's graduation date from the program. Changing to a new cohort and start date is done on a space available basis.
5. In GRA 629:
 - a. Registration in GRA 629 is required for students while completing a thesis. A student is required to enroll in a three (3) credit GRA 629 for thesis advisement.
 - b. If all coursework is complete, but the student has not completed the thesis requirements, they must continue to register for GRA 629. Students must be registered during the semester in which they receive their graduate degree.
 - c. Students are expected to complete the BS/MS program in Dietetics within two (2) years of initial registration in GRA 629 Thesis Advisement. Students who do not complete the program within this timeframe must petition for an extension of the time limit. Please refer to Graduate Catalog/Completion of Master's Degree Requirements.
 - d. Students receiving a grade of unsatisfactory (U) in GRA 629 must repeat the course and receive a grade of satisfactory (S) within two full-time semesters of the initial completion of the course.
 - e. Students receiving a second consecutive grade of unsatisfactory (U) in GRA 629 will be dismissed from the program.
6. Recency of Coursework: DTC 622 Professional Seminar, offered in the spring semester, must be taken within two (2) years of graduation. Students who have taken this course more than two (2) years before graduation must register for and repeat the course prior to graduating.

Academic Probation and Dismissal

Dietetics academic policies are in addition to college policies as outlined in the current Undergraduate and/or Graduate catalogs. All student grades will be reviewed at the end of each marking period (fall, spring and/or summer) throughout all phases in the Dietetics program.

1. Any student who fails to achieve the required grades in any pre-professional phase (years 1, 2 and 3) course during any marking period (fall, spring and/or summer), will be placed on academic probation. This includes failure to meet the following standards:
 - a. An overall and semester cumulative grade point average (GPA) of at least 2.5 is required in years 1 and 2 of the program.
 - b. An overall and semester cumulative grade point average (GPA) of at least 3.0 is required in year 3 of the program.
 - c. A minimum of a C grade (2.0) in all pre-requisite courses for the dietetics major.
 - d. A 3.0 overall average in dietetics (DTC) courses.

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- e. A minimum of a B- (2.67) grade is required in all dietetics courses at the 100-400 levels. These courses include: DTC 101, DTC 205, DTC 210, DTC 306, DTC 327, DTC 328, DTC 426.
 - f. Students must meet: **minimum course requirements, overall cumulative GPA requirements, and semester cumulative GPA requirements** as noted above to remain in good academic standing. Any department required course may be repeated only once upon the recommendation of the dietetics faculty.
2. Any student who fails to achieve the required grades in any Coordinated Program course during any marking period (fall, spring and/or summer), will be placed on academic probation. This includes failure to meet the following standards:
 - a. A minimum semester GPA of 3.0 is required throughout the CP.
 - b. A minimum grade of B (3.0) is required in all 400, 500 and 600 level courses taken, both Dietetics and college-wide, during the Coordinated Program.
 - c. A minimum of a B grade (3.0), which is equivalent to an S (Satisfactory) grade, is required in the following courses: DTC 410SP, DTC 420SP, DTC 511SP, DTC 512SP, DTC 521SP, DTC 522SP, DTC 631 and DTC 632. Students will be allowed to repeat only one of these courses.
 - d. Students receiving a grade of unsatisfactory (U) in GRA 629 must repeat the course and receive a grade of satisfactory (S) within two full-time semesters of the initial completion of the course.
 3. Students (full-time or part-time) who do not meet these academic standards will be placed on probation for the two (2) subsequent semesters that immediately follow the date of probation. The period of probation will be no longer than the equivalent of two (2) full-time semesters and includes any course work completed during the summer term.
 4. Students who receive an unacceptable grade in a course required for the major must repeat the course and receive an acceptable grade within two (2) subsequent semesters of initially taking the course.
 5. Students on academic probation must meet with his/her academic advisor within 30 days of the receipt of his/her letter to establish a written plan of correction. This plan will be maintained in the student's program file.
 6. All students on probation must meet the academic standards for the program. Failure to meet academic standards will result in dismissal from the program.
 7. A student who has not registered for consecutive semesters in the dietetics program (i.e. withdrawal, dismissal, leave of absence, failure to register, etc.) and desires to return to the program must meet college requirements. In addition to meeting college requirements, the student must submit a personal statement requesting a return to the program prior to scheduling a personal interview with the dietetics department chair. This interview must be conducted before a decision can be rendered regarding continuing with the program. If allowed to continue with the program, the student will be accepted provisionally. While on provisional status, the student must meet all academic requirements of the program and college as detailed above for two (2) full-time semesters. Failure to meet any standard will result in immediate dismissal without probation.
 8. Any student who must repeat coursework, decelerate or attend part-time must be aware that maximum accreditation class size limit is thirty (30) students per cohort. Actions such as these may alter the start date of the Coordinated Program and anticipated graduation date. Changing to a new cohort and start date is done on a space available basis.

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, students must follow the appeal procedures which are available at www.dyc.edu/appeals.

Costs of the Professional Phase - Coordinated Program

Students should be aware of the costs necessary for their supervised practice education in addition to tuition or class fees. Program costs are estimates and are subject to change without prior written notice.

Additional Program Cost (2018-2019)

Item	Cost
Transportation to SP site**	\$100/semester (summer)
Transportation to SP site**	\$175/semester (year 4)
Transportation to SP site**	\$350/semester (year 5)
Lab coat/ID	\$50
ServSafe© Certification	\$68 (course book and online examination)
Liability Insurance	\$50/semester
Academy Student Membership	\$65/year

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Item	Cost
Thesis Presentation Poster	\$40
Third-Year Summer Semester Textbooks	\$425
Fourth-Year Textbooks	\$450/semester
Fifth-Year Textbooks	\$125/semester

**Estimated \$.55 per mile, with an average trip of 12 miles plus parking

Course Requirements

Dietetics

Degree: B.S./M.S.

Course Requirements For the Major

In the specific area of concentration:

DTC 101	Orientation to Dietetics.....	1
DTC 205	Food Science.....	3
DTC 210	Food and Culture.....	2
DTC 306	Principles of Nutrition.....	3
DTC 319	Nutritional Biochemistry.....	3
DTC 327	Nutrition Throughout the Life Cycle.....	3
DTC 328	Nutrition for Fitness & Athletic Performance.....	2
DTC 409	Food Service Management I.....	2
DTC 409L	Quantity Food Preparation Lab.....	2
DTC 410	Food Service Management II.....	3
DTC 410SP	Food Service Management Supervised Practice.....	1
DTC 418	Introduction to Professional Practice.....	1
DTC 420	Introduction to Nutrition Care.....	3
DTC 420SP	Intro to Nutrition Supervised Practice.....	1
DTC 426	Nutrition Education & Counseling Methods.....	3
DTC 511	Medical Nutrition Therapy I.....	2
DTC 511SP	Medical Nutrition Therapy I Supervised Practice.....	3
DTC 512	Medical Nutrition Therapy II.....	2
DTC 512SP	Medical Nutrition Therapy II Supervised Practice.....	3
DTC 521	WIP Community Nutrition.....	3
DTC 521SP	Community Nutrition Supervised Practice I.....	2
DTC 522SP	Community Nutrition Supervised Practice II.....	1
DTC 524	The Nutrition Entrepreneur.....	3
DTC 600	Nutrition Theory & Practice.....	3
DTC 601	Research Methods in Dietetics.....	3
DTC 610	Dietetics Thesis Seminar.....	3
DTC 622	Professional Seminar.....	2
DTC 631	Advanced Nutrition Practice I.....	8
DTC 632	Advanced Nutrition Practice II.....	8

Total Credits: 79

In other academic areas required for this major:

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 303	Biochemistry.....	3

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BIO 303L	Biochemistry Laboratory.....	1
CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 209	Principles of Organic Chemistry.....	3
CHE 209L	Principles of Organic Chemistry Lab.....	1
CHE 219L	Organic Chemistry Lab.....	1
MAT 123	Introduction to Applied Statistics.....	4
MGT 305	Principles of Management.....	3
HSA 613	Management in Healthcare Organizations.....	3
GRA 629D	Thesis Advisement - Dietetics.....	3

Total Credits: 42**Major: 79****Major requirements in other academic areas: 41****Remaining core requirements: 48****Total: 168**

NOTE: These courses meet the knowledge and competencies established by the accreditation standards for entry-level education programs set by the Accreditation Council for Education in Nutrition and Dietetics (ACEND®) and are subject to change.

EDUCATIONAL LEADERSHIP

Educational Leadership

Through this program, educational professionals are prepared to confront leadership challenges and engage in effective research, policy analysis, and formulation. Graduates serve as leaders in a variety of teaching, research and administrative contexts across the P-16 education continuum.

This powerful, dynamic, and supportive doctoral program is designed to provide extensive preparation in educational theory, policy analysis, administration and applied research. The curricular design offers the opportunity for students to focus on higher education or K-12 leadership, and culminates in the dissertation. The program utilizes a delivery system that is sensitive to the professional demands on education practitioners by offering hybrid, evening, weekend, and summer coursework. Dissertations are driven by student interests, and professional and community needs.

The curriculum involves 50 hours of doctoral-level coursework beyond the master's degree. It is comprised of 17 courses including dissertation research, writing, and defense.

EXERCISE AND SPORTS STUDIES

Exercise & Sports Studies Department

The exercise and sports studies (ESS) program leads to a bachelor's of science (B.S.) degree designed to provide undergraduate students with the knowledge, skills, and abilities to be successful in a variety of careers within the health professions, fitness industry and/or competitive athletics. The ESS faculty and staff are committed to offering a rigorous curriculum designed to prepare students for careers in ESS or graduate degree programs.

Students are provided with a major foundation of ESS-specific courses in traditional, online, and hybrid formats. ESS students must choose one of three areas of specialization that prepare students for credentialing examinations offered through the National Strength and Conditioning Association and the American College of Sports Medicine.

The ESS department is intimately related to the strong group of health professions programs currently offered at D'Youville College at both the undergraduate and graduate levels, such as physical therapy and dietetics. An ESS minor also exists to complement other academic areas of study.

EXERCISE AND SPORTS STUDIES B.S.

Overview

The exercise and sports studies (ESS) program leads to a bachelor's of science (B.S.) degree of 122-124 credits, and is designed to provide undergraduate students with the knowledge and skills needed to pursue rewarding careers in the health professions, fitness industry and/or competitive athletics. Students are provided with a major foundation of 18 credits of content-specific coursework and are given the option to select from one of three areas of specialization. An ESS minor also exists to complement other academic areas of study.

The Exercise Studies Track (Track #1):

Provides students with a focus on the exercise and sports sciences and prepares students for careers in the fitness industry, strength and conditioning, and personal training. This track is designed to prepare students for credentialing examinations through the National Strength and Conditioning Association (NSCA) and the American College of Sports Medicine (ACSM).

The Sports Studies Track (Track #2):

Focuses on the social, psychological, business, and management aspects of the sports and fitness industries. The emphasis within this concentration is to prepare students for careers in sports and fitness management, athletic administration, and coaching.

The Health Professions Track (Track #3):

Designed for students pursuing an advanced degree in physical therapy. Students interested in physical therapy matriculate into the sequential-degree program (B.S. in exercise and sports studies + doctor of physical therapy [D.P.T.] program). Entering freshmen matriculate into and complete a B.S. in ESS under the administration of the ESS department. Students choosing the health professions track intimately study the basic sciences (chemistry, physics, anatomy and physiology) in addition to the exercise sciences in preparation for the D.P.T. graduate program. The track is also designed to prepare students for credentialing examinations through the National Strength and Conditioning Association (NSCA) and the American College of Sports Medicine (ACSM).

The ESS academic program is intimately related to the strong group of health professions currently offered at D'Youville College at both the undergraduate and graduate levels, such as physical therapy and dietetics. In addition, the undergraduate ESS major can be combined with elements of the undergraduate business management program for students interested in pursuing sports and fitness management. As such, this path of study is consistent with the educational mission of the ESS program and provides students with an attractive pathway for undergraduate studies in an area related to exercise and sport studies.

Admissions Requirements

Applicant will meet these criteria for entrance into ESS program (TRACK #1 AND TRACK #2):

1. Combined SAT score of 980 (or ACT of 19)
2. High school average of at least 80 percent
3. High school rank in the upper one half of the class
4. Transfers: must have a minimum of 2.0 GPA

Applicants for entrance into the ESS D.P.T. program (TRACK #3):
(Refer to physical therapy section of the catalog for admission requirements.)

Students who do not meet admission requirements for track #3 may be given the option of being accepted into either track #1 or track #2 dependent upon past academic performance. After two semesters in good academic standing that includes successful completion of two semesters of science required for the major, students can apply for a change of major into the seven-year ESS + D.P.T. program.

Program Contents and Requirements

The B.S. in exercise and sports studies (ESS) requires 122 to 124 credits, depending on the area of specialization (track) chosen. The program offers three tracks, each of which includes 17 courses that meet the D'Youville College core requirements along with five ESS

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foundation courses. Each track also includes additional coursework from a variety of disciplines that round out a students' educational experience.

Good Academic Standing

To be in good academic standing for exercise studies (track #1) and sports studies (track #2), students must:

1. Maintain a cumulative GPA of 2.00, and
2. Earn minimum grades of C in all courses required for students major.*

To be in good academic standing for health professions (track #3), students must refer to the section on physical therapy admissions requirements.

Academic Probation

Students who are not in good academic standing will be placed on academic probation. Student on academic probation will be limited to 13 credit hours during the semester they are on academic probation.

Dismissal

Students will be dismissed from the ESS program** if they:

1. Fail to remain in good academic standing while on academic probation or after having been on academic probation during a previous (non-summer) semester, or
2. Fail to earn a minimum grade of C in a repeated course.

** Students dismissed from track #3 (ESDPT program) may be permitted to continue in either track #1 or #2 if they otherwise meet all academic requirements of those tracks.

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

Course Requirements

Exercise and Sports Studies

Degree: B.S.

Core Course Requirements for the Major:

ENG 111	Introduction to Literature: Acad Writing.....	3
ENG 112	Humanities Seminar.....	3
SOC 101	Principles of Sociology.....	3
PSY 101	General Psychology.....	3
PHI/RS 201	One Elective from PHI 201 or RS 201.....	3
HUM	Five Humanities Electives.....	15
HIS	One History Elective.....	3
PSC/ECO	One Elective from PSC 201, ECO 201 or ECO 202.....	3
MAT	One Elective from MAT 122 or MAT 125.....	3
CSC	One Elective from CSC 110, CSC 151 or CSC 161.....	3
BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
Electives	Three Electives.....	9

Total Credits: 59

In other academic areas required for the major:

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ESS 101	Introduction to Exercise and Sports Studies.....	3
ESS 201	Prin of First Aid in Athletic Injuries.....	3
ESS 270	Exercise and Sports Studies Practicum.....	3
ESS 410	Strength & Conditioning Seminar.....	3
ESS 470	Exercise and Sports Studies: Internship.....	3
ESS 490	Exercise and Sports Studies Seminar.....	0
SOC 312	Sociology of Sports and Phys Activity.....	3

Total Credits: 18

Additional course requirements for Track 1 - Exercise Studies:

CHE 111	Chemistry for Health Sciences.....	3
CHE 112	Chemistry for Health Sciences II.....	2
CHE 113L	Chemistry for the Health Sciences Lab.....	1
BIO 339	Human Gross Anatomy.....	6
DTC 306	Principles of Nutrition.....	3
DTC 328	Nutrition for Fitness & Athletic Performance.....	2
ESS 220	Human Biomechanics.....	3
ESS 301	Fitness Eval & Exercise Prescription.....	3
ESS 306	Exercise Physiology.....	3
Electives	Seven Electives.....	21

Total Credits: 47

Core requirements: 59

In other academic areas required for the major: 18

In the specific area of concentration: 47

Total: 124

Additional course requirements for Track 2 - Sport Studies:

ESS 206	Coaching Theory & Methodology.....	3
ESS 232	Sport & Exercise Psychology.....	3
ESS 307	Sports & Fitness Management.....	3
PSY 203	Developmental Psychology.....	3
SOC 322	Health Illness & Society.....	3
SOC 400	Social Epidemiology.....	3
Electives	Nine Electives.....	27

Total Credits: 45

Core requirements: 59

In other academic areas required for the major: 18

In the specific area of concentration: 45

Total: 122

Additional course requirements for Track 3 - Health Professions:

CHE 111	Chemistry for Health Sciences.....	3
CHE 112	Chemistry for Health Sciences II.....	2
CHE 113L	Chemistry for the Health Sciences Lab.....	1
DTC 306	Principles of Nutrition.....	3
DTC 328	Nutrition for Fitness & Athletic Performance.....	2
ESS 220	Human Biomechanics.....	3
ESS 301	Fitness Eval & Exercise Prescription.....	3
ESS 306	Exercise Physiology.....	3
HSM 203	Medical Terminology.....	1
MAT 123	Introduction to Applied Statistics.....	4
PHY 111	Introduction to Physics.....	3
PHY 111L	Introduction to Physics Lab.....	1

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PHY 112	Introduction to Physics.....	3
PHY 112L	Introduction to Physics Lab.....	1
Electives	Four Electives.....	12
		<i>Total Credits: 45</i>

Core requirements: 59**In other academic areas required for the major: 18****In the specific area of concentration: 45****Total: 122**

HEALTH SERVICES ADMINISTRATION

Health Services Administration Department

The health services administration department offers a bachelor of science degree in health services management, health analytics, public health, as well as a master of science degree in health services administration, a doctorate in health administration, and three advanced certificates in health services administration, long-term care and clinical research associate. The undergraduate programs are described in the undergraduate catalog.

The health services administration department offers graduate courses in fall and spring semesters primarily with limited offerings in summer sessions. Graduate classes are delivered full on campus, fully online (distance learning) and hybrid (a mix of on campus and distance learning). On campus courses are offered on Monday through Thursday nights from 5:30 - 8:15 PM.

HEALTH ANALYTICS B.S.

Program Contents and Requirements

Analytics is the new frontier for health care organizations. Analytics offers the opportunity to identify areas of performance that can be improved, both in terms of the quality and cost of care. The mission of the health analytics program is to prepare students with the skills, knowledge and ethics necessary to work in a variety of health service organizations. The program prepares students to analyze large sets of health-related data from a variety of sources, and to effectively communicate those findings to diverse audiences.

Health analytics helps healthcare organizations convert massive amounts of information into usable, data driven intelligence. Qualified professionals in this field must work well as individuals and as members of a team. They must possess excellent written and verbal communication skills, as well as analytic ability. They must also understand healthcare systems and their management

Academic Requirements for the Health Analytics Program

Admission

Applicants must meet these criteria for entrance into the health analytics program:

1. A combined SAT score of 1170 (or ACT 24), and
2. High school average of at least 87%, and
3. High school rank in the upper one half of the class, and
4. Transfer students must have a minimum cumulative GPA of 2.75

Good Academic Standing

To be in good academic standing in the public health program students must maintain a cumulative GPA of 2.50.

Academic Probation

Students who are not in good academic standing will be placed on academic probation for their next (non-summer) semester. Students on academic probation will be limited to 13 credit hours during the semester they are on academic probation. Students will be removed from probation if they meet the requirements for good academic standing listed above. Students can remain on academic probation for two consecutive, non-summer, semesters.

Dismissal

Students will be dismissed from the public health program if they fail to remain in good academic standing after having been on academic probation during the immediate two preceding consecutive, non-summer, semesters

Graduation Requirements

Students will be eligible for a baccalaureate degree from the health analytics program if they:

1. Fulfill all college and major curriculum requirements
2. Earn a cumulative GPA of 2.5
3. Earn a minimum of a C in program Capstone and Internship requirements

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

Course Requirements

Health Analytics

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Degree: B.S.

Course Requirements for the Major:

ENG 111	Introduction to Literature: Acad Writing.....	3
ENG 112	Humanities Seminar.....	3
CSC 120	Computers & Electronic Health Records.....	3
BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
PHI/RS	PHI 201 or RS 201.....	3
MAT	MAT 122 or MAT 125.....	3
		Total Credits: 23

Humanities requirements:

PHI 204	Logic & Practical Reasoning.....	3
RS 214	Challenges of Death.....	3
PHI 312	Bioethics Seminar.....	3
PHI 336	Problems in Professional Ethics.....	3
SPE 201	Public Speaking.....	3
		Total Credits: 15

Social Sciences:

PSY	PSY 101 or PSY 203.....	3
SOC	SOC 101 or SOC 102.....	3
HIS	HIS 103 or HIS 111 or HIS 203 or HIS 204.....	3
PSC/ECO	PSC 201 or ECO 201 or ECO 202.....	3
		Total Credits: 12

Electives:

Electives	Three Free Electives.....	9
		Total Credits: 9

Major:

CSC 151	Introduction to Programming I.....	3
MAT 123	Introduction to Applied Statistics.....	4
MAT 124	Intermediate Applied Statistics.....	4
MAT 220	Applied Regression Analysis.....	3
MAT 222	Statistical Computing.....	3
MAT 224	Biostatistics.....	3
MAT 228	Applied Statistical Inquiry.....	3
HSM 110	Introduction to Public Health.....	3
HSM 203	Medical Terminology.....	1
HSM 210	Introduction to Healthcare Systems.....	3
HSM 318	Resource Management in Health Care.....	3
HSM 320	Health Services Internship.....	2
HSM 406	Health Information Management.....	3
HSM 408	Health Insurance.....	3
HSM 410	Health Care Policy and Law.....	3
HSM 413	Quality Improvement in Healthcare.....	3
HSM 414	Project Planning & Management.....	3
HSM 420	Health Services Management Internship.....	2
BIO 117	Drugs and Disease.....	3
SOC 400	Social Epidemiology.....	3
MGT 305	Principles of Management.....	3
MGT 318	Information and Communication Tech Mgt.....	3
		Total Credits: 64

Minimum total credits for graduation: 123

HEALTH SERVICES MANAGEMENT B.S.

Program Contents and Requirements

The health services management program at D'Youville develops the knowledge, skills, and abilities that students need to become a healthcare manager or to pursue further study in a graduate health professions program (e.g. Medicine, Physical Therapy, Chiropractic). The program utilizes coursework, internship, and capstone experiences to develop students' knowledge, skills, and abilities through an innovative and diverse set of major courses. Topics such as communications, professionalism, cultural competency, healthcare operations, finance, law, and policy allow students to gain practical skills for beyond the classroom. Students have the flexibility to design their non-major coursework to fit their short- and long-term interests and career goals including the ability to pursue a graduate program in a health profession.

The health services management program also serves as a pathway for students who are offered early assurance into a graduate health professions program at D'Youville, including the physical therapy program and the chiropractic program. Students who are offered early assurance should review the catalog entries for those programs for any further requirements.

Academic Requirements for the Health Services Management Program

Admissions Requirements

Applicants must meet these criteria for entrance into the health education and operations track of the health services management program:

1. A combined SAT score of 1080 (or ACT 21), and
2. High school average of at least 85%, and
3. High school rank in the upper one half of the class, and
4. Transfer students must have a minimum cumulative GPA of 2.50
5. Students must take and achieve a C or better in the program pre-requisite courses of Accounting (Acc 211 or higher), Economics (ECO 201/202 or higher), and Statistics (MAT 120 or higher) prior to beginning upper-level major coursework (defined as HSM 300 or higher courses)

Good Academic Standing

To be in good academic standing for HSM students must:

1. Maintain a cumulative GPA of 2.50.*

* Students who are in an early assurance track for a graduate health progression program must also meet the academic standing requirements specific to those programs. Please see your specific program for more detail.

Academic Probation

Students who are not in good academic standing will be placed on academic probation for their next (non-summer) semester. Students on academic probation will be limited to 13 credit hours during the semester they are on academic probation. Students will be removed from probation if they meet the requirements for good academic standing listed above. Students can remain on academic probation for two consecutive, non-summer, semesters.

Dismissal

Students will be dismissed from the HSM program if they:

1. Fail to remain in good academic standing after having been on academic probation during the immediate two preceding consecutive, non-summer, semesters.

Graduation Requirements

Students will be eligible for a baccalaureate degree in HSM from the HSM program if they:

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1. Fulfill all college and major curriculum requirements
2. Earn a cumulative GPA of 2.5
3. Earn a minimum of a C in HSM Capstone and Internship requirements.

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

Course Requirements

Health Services Management

Degree: B.S.

Course Requirements for the Major:

Electives	Two Natural Science courses and a corresponding Lab	6
CSC	One level 100 CSC elective.....	3
ENG 111	Introduction to Literature: Acad Writing.....	3
ENG 112	Humanities Seminar.....	3
HIS	One HIS Elective.....	3
MAT	One level 100 MAT; not 101.....	3
PHI/RS	PHI 201 or RS 201.....	3
PSC/ECO	PSC 201 or ECO 201 or ECO 202.....	3
PSY	PSY 101 or PSY 203.....	3
SOC	SOC 101 or SOC 102.....	3
Humanity	Five Humanity Electives.....	15
Electives		
Electives	Three Electives.....	9
Total Credits: 57		

Other to meet degree conferral credit minimum:

Electives	Five Electives.....	15
Total Credits: 15		

Prerequisite for HSM program may be fulfilled by meeting College requirements above:

ACC	One Accounting elective.....	3
MAT	One Statistics elective.....	3
ECO	One Macro or Microeconomics elective.....	3
Total Credits: N/A		

Major:

HSM 210	Introduction to Healthcare Systems.....	3
HSM 200	Professionalism in Health Care.....	1
HSM 306	Population Health.....	3
HSM 314	Max Health Org Assets of Coord & Comm.....	2
HSM 325	Management in Healthcare.....	3
HSM 308	Research Method for Healthcare Managers.....	3
HSM 316	Human Resources for Healthcare Managers.....	3
HSM 349	Healthcare Finance.....	3
HSM 382	Managerial Epidemiology.....	3
HSM 406	Health Information Management.....	3
HSM 408	Health Insurance.....	3
HSM 410	Health Care Policy and Law.....	3
HSM 413	Quality Improvement in Healthcare.....	3
HSM 415	Healthcare Operations.....	3
HSM 420	Health Services Management Internship.....	2
HSM 472	Health Services Management Capstone.....	3
HSM 473	Health Services Management Seminar.....	1

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Total Credits: 49

Total Curriculum: 121

PUBLIC HEALTH B.S.

Program Contents and Requirements

The program introduces the student to a broad spectrum of public health courses in a number of disciplines that broadly reflect the field including epidemiology, natural sciences, math, philosophy/religion, sociology, research, and health services.

The mission of the program is to prepare students to enter a diverse public health workforce in a variety of job placements, as well as to provide a solid foundation for students who wish to pursue graduate studies in related fields.

Academic Requirements for the Public Health Program:

Admissions Requirements

1. A combined SAT score of 1080 (or ACT 21), and
2. High school average of at least 85%, and
3. High school rank in the upper one half of the class
4. Transfer students must have a minimum cumulative GPA of 2.5

Good Academic Standing

To be in good academic standing in the public health program students must maintain a cumulative GPA of 2.50.

Academic Probation

Students who are not in good academic standing will be placed on academic probation for their next (non-summer) semester. Students on academic probation will be limited to 13 credit hours during the semester they are on academic probation. Students will be removed from probation if they meet the requirements for good academic standing listed above. Students can remain on academic probation for two consecutive, non-summer, semesters.

Dismissal

Students will be dismissed from the public health program if they fail to remain in good academic standing after having been on academic probation during the immediate two preceding consecutive, non-summer, semesters

Graduation Requirements

Students will be eligible for a baccalaureate degree from the health analytics program if they:

1. Fulfill all college and major curriculum requirements
2. Earn a cumulative GPA of 2.5
3. Earn a minimum of a C in program Capstone and Internship requirements

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

Course Requirements

Public Health

Degree: B.S.

College Core Requirements

ENG 111 Introduction to Literature: Acad Writing.....3

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ENG 112	Humanities Seminar.....	3
PHI/RS	PHI 201 or RS 201.....	3

Total Credits: 9*Five Required Humanities Courses*

PHI 312	Bioethics Seminar.....	3
FA 235	Digital Storytelling.....	3
SPE 201	Public Speaking.....	3
HUM	Two Humanities Electives.....	6

Total Credits: 15*Social Sciences*

PSY	PSY 203 or PSY 101.....	3
SOC	SOC 101 or SOC 102.....	3
HIS	HIS 103 or HIS 111 or HIS 203 or HIS 204.....	3
PSC/ECO	ECO 201 or PSC 201 or ECO 202.....	3

Total Credits: 12*Mathematics*

CSC 120	Computers & Electronic Health Records.....	3
MAT	MAT 122 or MAT 125.....	3-4

Total Credits: 6-7*Natural Science*

CHE	One Elective from CHE 101 and CHE 101L, or CHE 111.....	3-4
BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1

Total Credits: 7-8*Free Electives*

Electives	Three Electives.....	9
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Total Credits: 9**Course Requirements for the Major:***In the specific area of concentration:*

HSM 110	Introduction to Public Health.....	3
HSM 203	Medical Terminology.....	1
HSM 210	Introduction to Healthcare Systems.....	3
HSM 312	Health Edu Program Planning & Evaluation.....	3
HSM 410	Health Care Policy and Law.....	3
HSM 414	Project Planning & Management.....	3
PH 301	Health Behavior.....	3
PH 302	Global Health.....	3
SOC 215	Research Methods in Sociology.....	3
SOC 400	Social Epidemiology.....	3
BIO 332	Environmental Health.....	3
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
CHE	CHE 102L or CHE 112 with CHE 113L.....	3
MAT 123	Introduction to Applied Statistics.....	4
MAT 124	Intermediate Applied Statistics.....	4
PH 410	Capstone Project.....	3-6

Total Credits: 49-52

* Students who chose to take CHE 111, 112, 113 must take an additional approved elective to meet the 120 graduation requirement.

Approved Major Electives

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Four BIO 117, BIO 208/L, BIO 330, HIS 336, HSM 220, HSM
Electives 406, PSY 353, SOC 322 or SOC 323.....12-15

Total Credits: 12-15

*Minimally four electives are required (12 credits) for the major. At least three must be at the 300-400 level. Check the current college catalog to ensure that you meet the prerequisites for the intended course.

Core Requirements and electives: 62-68

Minimum total credits required: 120

LIBERAL ARTS

Liberal Arts Department

A student seeking to become a liberally educated person needs exposure, in breadth and in depth, to the humanities and the social sciences.

These studies, concerned not merely with information but with values, help the student's development as a total person. This implies not only intellectual and social development, but also maturity in assessing the values essential to a sound philosophy of life. The department of liberal arts offers degrees in English, global studies, history, liberal studies for education, psychology, sociology and philosophy. Requirements for these programs are listed in the courses of instruction section of this catalog. Courses are also offered in foreign languages, fine arts and religious studies.

Students within the department must maintain a minimum 2.00 grade point average in courses taken at D'Youville in their major subject area.

ENGLISH B.A.

Overview

The English program at D'Youville offers the opportunity to study and enjoy British, American and World literature, to master expository writing and to learn to write and publish creative fiction, poetry and drama. Our courses focus on close reading of both classic and non-canonical works and the study of critical and cultural theories about literature.

D'Youville's English majors develop the highly marketable skills of analytical, critical and creative thinking, problem-solving and effective written and oral communication. Career opportunities for students who earn a B.A. in English exist in the fields of education, media, creative and technical writing, library science, public relations, marketing, non-profit, government and law. The course option of an individually designed internship allows a student to prepare application material to graduate school and/or to explore a career path.

A minor concentration in English literature of 15-credit hours is also available to all students. Please see the catalog section on minors for requirements.

English and Study Abroad at D'Youville College

The English program encourages its students to complete some portion of their undergraduate study through the college's Study Abroad program in England, Italy, and many other locations. English majors can deepen their understanding of British, American, and post-colonial English literature by study in a foreign university. English majors who study abroad come to understand that cultural context is crucial for interpreting literary texts. Seeing Shakespeare performed in the reconstructed London Globe, visiting the Lake District where Wordsworth and Coleridge wrote some of their finest poetry, reading Joyce's *Ulysses* in Dublin, discussing American literary texts with British or Australian students are all experiences that foreground the ways in which knowledge is constructed differently in other political and social environments. Alternatively, through immersion in a foreign language program, English students may gain fluency in another language and acquire a sense of its literature while at the same time studying their own literature. All courses taken through the college's Study Abroad program are accepted as D'Youville courses. With careful planning, students may spend a semester in a foreign university with no loss of time in completing their degrees. Junior and senior students are also eligible to complete internships abroad. For details on the Study Abroad program, see "Study Abroad Opportunities" on the D'Youville website (www.dyc.edu).

Admission Requirements

Freshman Admission

Applicants must meet the following three criteria:

1. Combined SAT scores of at least 980 (or ACT equivalent score of 19)
2. A high school average of at least 80 percent
3. A high school rank in the upper half of the class

Transfer Admission

Students must have a minimum G.P.A. of 2.33. Transfer credits will be determined on a case-by-case basis to assess adaptability to curriculum requirements.

Each student accepted into the program must submit a letter of intent prior to course registration.

Course Requirements

English

Degree: B.A.

The English degree curriculum is designed for maximum flexibility for students to develop their own course of study in partnership with their academic English faculty advisor. The path through the rest of the curriculum is individually designed to move students through basic skill sets to more advanced study and application of knowledge.

UNDERGRADUATE CATALOG 2018-2019**D'YOUVILLE COLLEGE • 1.800.777.3921 • WWW.DYC.EDU***Courses Requirements for the Major:*

ENG 237	Introduction to Literary Criticism.....	3
ENG	Two of the following literary surveys: ENG 201, ENG 202, ENG 211 or ENG 212.....	6
ENG	One from ENG 302 or ENG 329.....	3
ENG	Any four additional 200-level courses in ENG.....	12
ENG	Any four additional 300-400-level courses in ENG.....	12
ENG	Choose one Free Elective or ENG 444.....	3
Total Credits:		39

Major: 39**Minor - Students are strongly encouraged to have a minor in another discipline: 15****Core requirements and electives: 66****Total: 120**

NOTE: ENG 111-112 are required of all students and do not count towards the major.

HISTORY B.A.

Overview

To fulfill the requirements for a bachelor of arts in history, students must complete the following history courses: 103, 111, 203, and 204; two courses in U.S. history; one course in European history; one non-Western history course; five history courses above HIS 204 or in a related field as recommended by the student's advisor to fulfill a concentration focused on a geographical region, time period, or theme; three-credit hour senior research project and a minimum three-credit hour internship are also required.

Twelve credits must be completed in a related field (e.g., political science) or a structured minor (any discipline).

Students within the department must maintain a minimum 2.0 G.P.A. in courses taken at D'Youville in their major subject area.

A core requirement history course must be taken before any 300-level history course, unless the individual has a B average in high school social science.

Admission Requirements

Freshman Admission

Applicants must meet the following three criteria:

1. Combined SAT scores of at least 980 (or ACT equivalent score of 19)
2. A high school average of at least 80 percent
3. A high school rank in the upper half of the class

Transfer Admission

Students must have a minimum G.P.A. of 2.33. Transfer credits will be determined on a case-by-case basis to assess adaptability to curriculum requirements.

Each student accepted into the program must submit a letter of intent prior to course registration.

Course Requirements

History

Degree: B.A.

Course Requirements for the Major:

Four courses from the History Core:

HIS 103	Comparing World Civilizations.....	3
HIS 111	Growth of Western Culture.....	3
HIS 203	American History to 1865.....	3
HIS 204	American History Since 1865.....	3
Total Credits:		12

Two United States History Courses: 6

HIS	Any courses in US history except HIS 203 and HIS 204 fulfill the requirement.....	6
Total Credits:		6

Two Non-United States History Courses: 6

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HIS One course must be in European history and one must
 be non-Western history to fulfill the requirement. HIS
 103 and HIS 111 do not fulfill this requirement..... 6

Total Credits: 6*Five Upper-Division History Courses (Concentration): 15*

HIS Concentration in a US or Non-US history track may be
 focused on geographical region, time period, or theme in
 consultation with a History Department advisor..... 15

Total Credits: 15

HIS 444 Internship.....3

HIS-450 Capstone Course/Senior Thesis..... 3

Total Credits: 6

In other academic areas required for the major:

*Related field in one of the following: 12***Structured Minor**

- Any discipline

Related Field

- Economics
- Foreign Languages
- Political Science

Major: 57**Core requirements and electives: 63****Total: 120**

PHILOSOPHY B.A.

Overview

The philosophy program leads to the bachelor of arts degree in philosophy. Of the 33 credit hours in philosophy required for the major, six serve as the basic core: PHI 201, 204, 280, 305, 310, 450 and 600. Twelve additional credit hours in philosophy must be taken, along with four support courses in a related field (e.g., business, accounting, management, computer science or any other area which supports a student's goals). A student may develop the philosophy major by completing 12 hours beyond the basic philosophy core. The 12 hours must include two courses at the 300 level and two courses at the 400 level. A minimum three credit hour internship is also required.

Philosophy Minor

Students may take a philosophy focus majoring while in another subject by completing 15 credit hours in philosophy. This set of philosophical courses requires registration in PHI 201 and 204, with the remaining nine credits coming from any two 300-level and one 400-level philosophy course.

Students within the program must maintain a minimum G.P.A. of 2.0 in philosophy courses taken at D'Youville. Courses are available during a two-year cycle unless noted otherwise.

Admission Requirements

Freshman Admission

Applicants must meet the following three criteria:

1. Combined SAT scores of at least 980 (or ACT equivalent score of 19)
2. A high school average of at least 80 percent
3. A high school rank in the upper half of the class

Transfer Admission

Students must have a minimum G.P.A. of 2.33. Transfer credits will be determined on a case-by-case basis to assess adaptability to curriculum requirements.

Each student accepted into the program must submit a letter of intent prior to course registration.

Course Requirements

Philosophy

Degree: B.A.

Course Requirements for the Major:

In the specific areas of concentration:

PHI 201	Ethics in Theory & Action.....	3
PHI 204	Logic & Practical Reasoning.....	3
PHI 280	Western Ancient Philosophy.....	3
PHI 305	History of Modern Philosophy I.....	3
PHI 310	History of Modern Philosophy II.....	3
PHI 450	Senior Research.....	3
*PHI 600	Philosophical Methods.....	3
PHI	Four Electives (two at 300 level, two at 400 level).....	12
PHI 444	Internship.....	3-12

Total Credits: 36-45

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In other academic areas required for the major:

PHI Four Electives.....12
Total Credits: 12

Major: 45
Core requirements and electives: 75
Total: 120

*Undergraduate credit only will be awarded when taking course.

PSYCHOLOGY B.A.

Overview

D'Youville College has offered a B.A. in psychology since the fall of 2000. This program provides students with a strong foundation of psychological knowledge that is valuable in any career requiring critical thinking and thoughtful understanding. In addition, the curriculum is designed to provide the student with ongoing guidance in the establishment and attainment of professional goals. The student will be well prepared to gain employment or admission to graduate programs in psychology or related fields.

During the first two years of the program, students complete general education core courses in the arts, humanities and sciences, and program core courses in the foundation areas of psychology. These core courses prepare the student for advanced study.

In the last two years of the program, students are required to complete seven upper-level psychology electives within content areas including developmental, physiological, social, abnormal, cognitive or personality psychology. Students are required to complete a minimum of two electives at the 400-level to provide familiarity with peer-reviewed sources, but may choose electives in any content areas that are in keeping with their academic or professional interests. Students are also required to complete two semesters of internship and its corequisite senior seminar during their senior year. Students may choose internships in human or social service, forensic/legal, research, medical, school or other placements that are consistent with their goals and interests and approved by the college. All students will spend a minimum of approximately 15 hours per week in internship-related activities. In the senior seminar, students discuss issues pertaining to their internship experiences and professional development (e.g., ethics, supervision, cultural diversity, applying to graduate school) that culminates in the development of a senior paper. The senior experience is designed to enhance the student's studies in psychology, career development and preparation for graduate study or vocational placement.

Psychology Minor

The psychology minor is designed to enhance a student's academic experience and to provide background for those planning to pursue careers in any field that involves dealing with people. Students wishing to minor in psychology must complete 15 credits. Students are required to complete PSY 101, two of the following courses: PSY 203, 204, 205, 206, 207, 208; and two additional three-credit psychology electives at any level.

Admission Requirements

Freshman Admission

Applicants must meet the following three criteria:

1. Combined SAT scores of at least 980 (or ACT equivalent score of 19)
2. A high school average of at least 80 percent
3. A high school rank in the upper half of the class

Transfer Admission

Students must have a minimum G.P.A. of 2.33. Transfer credits will be determined on a case-by-case basis to assess adaptability to curriculum requirements.

Each student accepted into the program must submit a letter of intent prior to course registration.

Academic Standards

Academic regulations for psychology are in addition to general college policies for all part-time and full-time students. Part-time and full-time students must meet all the academic regulations listed below.

1. Grade and G.P.A. requirements
 - a. Freshman academic requirements:
 1. Students must maintain a semester and cumulative average of a minimum of 2.0.

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2. Students must maintain a minimum grade of C in courses required for the major.
 3. Students who fail to meet these requirements are placed on program probation where they will remain for two semesters (see B.1 and B.2 Probationary Standing).
 4. Students are permitted to repeat a course once. Permission to repeat a course must be obtained from the faculty in that course on a space-available basis.
- b. Sophomore, junior and senior academic requirements:
1. Students must maintain a semester and cumulative average of a minimum of 2.33.
 2. Students must maintain a minimum grade of C in all courses required for the major.
 3. Students who fail to meet these requirements are placed on program probation where they will remain for two fulltime semesters (see B.1 and B.2, Probationary Standing).
 4. Students are permitted to repeat a course once. Permission to repeat a course must be obtained from the faculty in that course on a space-available basis.
- c. Psychology elective academic requirements
1. Students must achieve a C or better in seven psychology electives covering at least four areas and with at least two at the 400 level.
 2. Students earning less than a C in any psychology elective may:
 - a. Choose to repeat the course when it is next offered
 - b. Choose to take a different elective to apply towards the major (in which case, the student cannot apply the elective graded below a C towards the psychology major)
2. Probationary standing:
- a. Students who are placed on program probation have the following limitations:
1. Students who are placed on probation will be limited to no more than 13 credit hours per semester.
 2. Students will remain on probation for two full-time semesters, during which time they must fulfill the conditions of probation or be dismissed from the program.
 3. Students with probationary status must have the permission of the internship supervisor before registering for PSY 469/PSY 489 or PSY 470/PSY 490. In order to obtain this permission, students must demonstrate the ability to meet academic and professional standards of the program required for the internship experience.
- b. Students on program probation are required to meet the following conditions in two full-time semesters or be dismissed from the program:
1. Freshmen must maintain a semester and cumulative average of a minimum of 2.0
 2. Sophomores, juniors, and seniors must maintain a semester and cumulative average of a minimum of 2.33
 3. All students must meet with their academic advisor at least three times during the probationary semester; it is the responsibility of the student to coordinate these meetings
 4. All students must maintain a minimum grade of C in all courses required in the major.
- c. Previously dismissed students who reapply and are re-accepted into the program will be on program probation for two full-time semesters.

Course Requirements**Psychology****Degree: B.A.****Course Requirements for the Major:***In the specific areas of concentration:*

PSY 101	General Psychology.....	3
BIO 105	Human Biology.....	4
		Total Credits: 7

Psychology courses required by program:

PSY 102	History of Psychology.....	3
PSY 201	Statistics in Behavioral Sciences.....	3
PSY 202	Research Methods in Behavioral Sciences.....	3
PSY 203	Developmental Psychology.....	3
PSY 204	Physiological Psychology.....	3
PSY 205	Social Psychology.....	3
PSY 206	Abnormal Psychology.....	3
PSY 207	Cognitive Psychology.....	3

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PSY 208	Personality.....	3
PSY 209	Psychology As a Profession I.....	1
PSY 210	Psychology as a Profession II.....	1
PSY 469	Psychology Internship I.....	4
PSY 470	Psychology Internship II.....	4
PSY 489	Senior Seminar I.....	2
PSY 490	Senior Seminar II.....	2

Total Credits: 41

Seven additional psychology elective courses are required, with courses chosen from at least four of the following fundamental areas and including at least two courses at the 400-level.

Developmental Psychology

PSY 353	Social Psychology of Aging.....	3
PSY 363	Human Sexuality.....	3
PSY 453	Developmental Psychopathology.....	3
PSY 463	Special Topics in Dev Psychology.....	3

Total Credits: 12

Physiological Psychology

PSY 364	Neuropsychology.....	3
PSY 454	Drugs and Behavior.....	3
PSY 464	Special Topics Physiological Psychology.....	3

Total Credits: 9

Social Psychology

PSY 355	Group Dynamics.....	3
PSY 365	Forensic Psychology.....	3
PSY 455	Multicultural Psychology.....	3
PSY 465	Special Topics in Social Psychology.....	3

Total Credits: 12

Abnormal Psychology

PSY 356	Theories of Counseling.....	3
PSY 366	Psychological Assessment.....	3
PSY 456	Behavior Modifications.....	3
PSY 466	Special Topics in Abnormal Psychology.....	3

Total Credits: 12

Cognitive Psychology

PSY 357	Sensation and Perception.....	3
PSY 367	Psychology of Consciousness.....	3
PSY 467	Special Topics in Cognitive Psychology.....	3

Total Credits: 9

Personality

PSY 358	Psychology of Human Relations.....	3
PSY 368	Stress & Adjustment.....	3
PSY 458	Psychology of Gender.....	3
PSY 468	Special Topics in Personality.....	3

Total Credits: 12

Core requirements: 58

Required Psychology courses: 41

Elective Psychology courses: 21

Total: 120

RELIGIOUS STUDIES (B.A.)

Overview

D'Youville College's Bachelor of Arts program in Religious Studies allows students to examine and explore one of the most pervasive and influential forces in society. From world religions – Judaism, Christianity, Islam, Buddhism, and Hinduism – to major ethical issues – abortion, LGBT rights, stem cell research, social justice, and poverty – students will develop the analytical writing and comprehension skills necessary for advanced careers.

Our compact, 36-credit program offers students the opportunity to cater their studies to their personal preferences as they plan for careers in law, education, ministry, and government, or to continue their education through graduate programs. Students are encouraged to explore a double major in fields such as [Psychology](#), [Philosophy](#), [History](#), [Dietetics](#), and more.

Admissions

First Time Freshmen

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. If you have been successful in a traditional college preparatory program in high school, you should be well-prepared for the academic challenges at D'Youville.

Students entering D'Youville as a freshman must meet the following minimum entrance criteria:

High School Average	SAT + (or)	ACT
80	980	19

+ Score is based on the new SAT score format which went into effect in March 2016.

Our admitted freshman class profile:

High school average: 85% attained a B or better

Class rank: 87% of students in the top 50 percent of their class or higher

Test Scores	25th Percentile	75th Percentile	Median
SAT Evidence-based Reading and Writing*	460	590	530
SAT Math*	510	590	550
SAT Composite*	1010	1180	1090
ACT Composite*	21	25	23

transfer students

Students entering D'Youville as a transfer student must meet the following entrance criteria:

Criteria for Admission: Transfer students with a 2.5 cumulative GPA or higher will be considered for admission.

Average Cumulative GPA: 3.26

Review the [steps to apply for admission](#) to D'Youville as a transfer student.

Courses

Religious Studies

Degree: B.A.

Course Requirements for the Major:

In the Specific Area of Concentration

RS 101	Introduction to the Bible.....	3
RS 102	Belief & Unbelief in the Brave New World.....	3
RS 209	Major Western Faiths.....	3
PHI 308	Eastern Philosophy.....	3
RS 211	Catholicism Today.....	3
RS	Six Religious Studies Electives.....	18
INT	One Internship Elective.....	3

Total Credits: 36

Requirement	Credits
Major	36
Core Requirements and Electives	84
Total	120

SOCIOLOGY B.A.

Overview

The mission of the sociology program is to consider the notion of power and the complex ways in which humans make meaning. Sociology students explore the relationships between individuals and social institutions, with a focus on societal diversity. At the core of the program is the emphasis on human rights, and the belief that all individuals deserve a life of dignity and equality. From the investigation of daily interactions to the study of broadbased global social movements, the program accentuates a concern for social justice along lines of social class, race, ethnicity, gender and so forth. The program stresses the importance of devising solutions to social problems. Students are exposed to the substantive areas within the discipline, and within courses they develop skills in critical thinking, data collection and interpretation, policy analysis and oral and written communication. They graduate from the program with a deeper sense of self and a richer and more meaningful sense of one's place in society.

Students pursue careers and graduate school in areas in which they can be of service to others. Graduates pursue a wide range of careers, for example, in government, public policy, criminal justice, social activism, law, human services, health care administration, counseling and human resources. A degree in sociology also provides excellent preparation for graduate study in sociology and a variety of applied or related areas including law, public policy, urban and community planning, health care administration, social work, social research, health research, market research and education.

The sociology major is organized to provide a firm grounding in the discipline. The sociology courses at the 100-level introduce students to the basic concepts and analytical tools used in sociology. Courses at the 200-level provide exposure to theory, methods of research and concentration upon particular social processes. The upper-level courses present opportunities for in-depth investigation of particular social problems, institutions or sub-fields. The Special Topics 420 course is always changing in terms of focus to reflect current issues. Every student must complete an internship in either their junior or senior year. Students have worked on internships for instance in public health policy, human rights, education, government, public service and in medical institutions. Unique to the program, at the upper course level, the major offers an applied urban case study opportunity in which students undertake an intense, micro-study of problems in a specific urban center.

To complete the program, students must fulfill a 27-credit sociology sequence composed of SOC 101, 102, 203, 211, 215, 342, 410, 444, and 490. In addition, students must satisfy 12 credits of sociology electives, and have a related field or minor of at least 12 credits. A minimum grade of C+ must be earned in each required course in the sociology major or the course must be repeated.

Admission Requirements

Freshman Admission

Applicants must meet the following three criteria:

1. Combined SAT scores of at least 980 (or ACT equivalent score of 19)
2. A high school average of at least 80 percent
3. A high school rank in the upper half of the class

Transfer Admission

Students must have a minimum G.P.A. of 2.33. Transfer credits will be determined on a case-by-case basis to assess adaptability to curriculum requirements.

Each student accepted into the program must submit a letter of intent prior to course registration.

Course Requirements

Sociology

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Degree: B.A.

Course Requirements for the Major:

In the specific areas of concentration:

SOC 101	Principles of Sociology.....	3
SOC 102	Social Problems.....	3
SOC 203	Social Theory.....	3
SOC 211	Our Changing Social World.....	3
SOC 215	Research Methods in Sociology.....	3
SOC 342	Sociology of Human Rights.....	3
SOC 410	Senior Project.....	3
SOC 444	Internship.....	3-12
SOC 408	Collective Behavior.....	3
SOC	Four Electives.....	12
Electives	Four Electives from a related field or minor.....	12

Total Credits: 51-60

Major: 51-60

Core requirements and electives: 69

Total: 120-129

SPANISH B.A.

Overview

As the official language of 20 countries around the world, a foundation in Spanish opens the doors to a wealth of opportunities at home and abroad. Students in the 4-year Spanish BA program will learn about Hispanic communities of the world through coursework, internship experiences, and service opportunities.

Spanish is a global language that extends to a diverse set of cultures and countries, and students in the program will be fully-immersed in the various varieties of Spanish spoken around the world. Students will gain a deep knowledge of the language, history, culture, and literature of the Spanish-speaking world as they learn about the values, customs, and beliefs that frame the various rich and dynamic Hispanic cultures.

Dual Major

At 41 credit hours, the Spanish BA major is a compact major that allows you to pursue a dual major in any other BA major field of study offered at D'Youville. And a second major opens even more opportunities in fields like business, government, politics, education, or the non-profit world.

FRESHMEN STUDENTS

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. If you have been successful in a traditional college preparatory program in high school, you should be well-prepared for the academic challenges at D'Youville.

Students entering D'Youville as a freshman must meet the following minimum entrance criteria:

High School Average	SAT + (or)	ACT
80	980	19

+ Score is based on the new SAT score format which went into effect in March 2016.

Our admitted freshman class profile:

High school average: 85% attained a B or better

Class rank: 87% of students in the top 50 percent of their class or higher

Test Scores	25th Percentile	75th Percentile	Median
SAT Evidence-based Reading and Writing*	460	590	530
SAT Math*	510	590	550
SAT Composite*	1010	1180	1090
ACT Composite*	21	25	23

*These scores reflect the new SAT score format, which went into effect in March 2016.

TRANSFER STUDENTS

Students entering D'Youville as a transfer student must meet the following entrance criteria:

Criteria for Admission: Transfer students with a 2.5 cumulative GPA or higher will be considered for admission.

Average Cumulative GPA: 3.26

Review the [steps to apply for admission](#) to D'Youville as a transfer student.

Course Requirements

Spanish

Degree: BA

Course Requirements for the Major:

*SPA	SPA 101 and SPA 102; or SPA 103; or SPA 104.....	3-6
SPA 201	Intermediate Spanish I.....	3
SPA 202	Intermediate Spanish II.....	3
SPA 211	Conversation and Composition I.....	3
SPA	SPA 212 or SPA 213.....	3
SPA	Three SPA 300-level electives.....	9
SPA	SPA 400 or SPA 401.....	3
SPA 410	Spanish Senior Seminar.....	2
**SPA	SPA electives.....	9

Total Credits: 38-41

*All students will be required to complete the Spanish Language Assessment and Agreement form in order to place students in the appropriate level.

** For students beginning with SPA 101, this would equal 23 credit hours in foundation courses and six electives for a total of 41 credit hours. A minimum of three electives at the 300 level are also required. Students who place out of one or more of the required foundation hours will make up their hours by selecting more electives.

Totals

Requirement	Credits
Major	41
Core requirements and electives	79
Total	120

NURSING (SCHOOL OF)

School of Nursing

Programs in the School of Nursing include undergraduate and graduate degree programs and post-graduate APRN certificates. The entry level professional program leads to the Bachelor of Science in Nursing (BSN) degree in four academic years. Graduates are eligible to apply to take the NCLEX-RN® for licensure as registered nurses. The program has a strong liberal arts foundation preparatory to and correlated with professional courses. Students begin clinical course work in their sophomore year and complete a variety of clinical experiences before graduation.

A special curriculum (RN to BSN) is available for RN students with an associate degree or diploma in nursing. The curriculum offered online, except for clinical experiences, is designed to capitalize on and enhance the knowledge and experience gained from practicing as a professional nurse and from previous college coursework.

D'Youville offers master's of science in nursing degree programs in psychiatric mental health nurse practitioner (PMHNP), family nurse practitioner (FNP), nursing management and quality leadership, and nursing education with a clinical focus. The PMHNP and FNP programs are also available in the Doctor of Nursing Practice degree program and the post-graduate advanced practice certificate program. The nurse practitioner programs prepare graduates to apply for and take national certification exams.

All programs include a focus on evidence based practice, interdisciplinary healthcare studies, culturally competent healthcare, and collaboration and partnerships with clients, healthcare professionals, and agencies.

Graduates are prepared for careers in a multitude of healthcare settings including primary care, community and home health nursing, hospital nursing long-term care nursing, and new independent roles in managed care settings. Employment opportunities vary by specific programs.

The baccalaureate degree in nursing, the master degree, Doctor of Nursing Practice, and the post-graduate APRN certificate at D'Youville are accredited by the [Commission on Collegiate Nursing Education](#).

Commission on Collegiate Nursing Education
655 K Street NW, Suite 750
Washington, DC 20001
Phone: 202-887-6791

NURSING B.S.N.

Overview

Programs offered in the School of Nursing for undergraduate students include:

- A four-year bachelor of science in nursing program
- A bachelor of science in nursing program for registered nurses with an associate degree or diploma and a current, unrestricted license.

All programs are registered by the New York State Education Department and accredited by the Commission on Collegiate Nursing Education (CCNE). Clinical affiliations are conducted with a majority of the health care institutions in Western New York. Additional information on graduate level programs is available in the D'Youville College Graduate and Professional Degree Programs Academic Catalog.

Bachelor Of Science In Nursing — B.S.N.

This four-year bachelor of science in nursing program prepares graduates for the NCLEX Professional Nursing Licensing Examination. A minimum of 121 credits are required for the B.S.N. degree. The community-based curriculum focuses on the knowledge and skills needed for the 21st century. The clinical experience emphasizes evidence based practice and interprofessional collaboration. Clinical nursing courses begin in the second year while students are completing the prerequisite science courses and core liberal arts courses. The strong clinical preparation is acquired through a variety of clinical experiences.

Admission Requirements B.S.N. Program*

Freshmen:

B.S.N. Program:

- Combined SAT of at least 1020 (Math and Verbal) or 21 ACT score
- 85 percent high school average
- Upper half of class

Transfer:

- 2.5 G.P.A.

*Entry course requirements for admission are as follows: Successful completion of three years of high school science, including one year of high school biology and one year of high school chemistry or equivalent, and two years of high school math, other than business math.

Pre-licensure students who have not taken a high school chemistry course will be accepted on the condition that they complete a required course in chemistry.

Transfer students from outside or within the college must meet these same requirements, or their equivalent, and have a cumulative G.P.A. of 2.5.

Transfer students who have been dismissed from other nursing programs are not eligible for admission.

Applicants holding other baccalaureate degrees at the time of admission are not required to meet the college core requirements. In order to register for nursing coursework, students must be formally accepted into the program.

Freshmen entering fall 2018:

1. Three years of college prep science including biology and chemistry and
 - a. 80 or higher on the Regents chemistry exam and/or a final high school grade of 80 or higher in chemistry

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- b. 80 or higher on the Regents biology exam and/or a final high school grade of 80 or higher in biology.
2. English 11 grade of 80 or higher
3. Two years of college prep math
4. Overall high school final average of 85 or higher
5. Minimum SAT score of 1020 or a minimum ACT score of 20

***Please note: Students that are borderline academically and failing to meet all of the minimum Admissions Standards to the School of Nursing, may be reviewed by the Admissions Review Committee to determine acceptance into the program. All decisions of this committee are final.*

Academic Regulations*

*Students admitted to the nursing program should refer to the current School of Nursing Undergraduate Student Handbook Academic Policies section for policies in effect at the time of admission to the nursing program.

1. Grade and G.P.A. Requirements:
 - a. To be in good standing in the BSN program, students must:
 1. Maintain a cumulative G.P.A. of 2.5.
 2. Maintain a minimum grade of C in all 100-400 level courses required in the major and for all other courses required for the major as outlined in progression requirements.
 - b. A student who takes an incomplete grade in a prerequisite to a required nursing course will not be permitted to begin that nursing course until the prerequisite course is completed with an acceptable grade. An incomplete grade in a prerequisite course must be satisfied one week prior to the start of the course for which the incomplete course is a prerequisite.
 - c. For any NUR course with a lab/clinical component, both the theory component and the lab/clinical component must be repeated if a passing grade is not achieved for either theory (minimum grade of C) and/or clinical(s) (minimum grade of S).
 - d. A minimum average grade of 73% for course examinations is required prior to consideration of any other graded components of NUR courses. If a student's exam average is less than 73% the letter grade for the course will be based on that exam average only. A student who does not satisfactorily complete the clinical component of the NUR course will receive a grade of F.
2. Progression Requirements:
 - a. A minimum grade of C is required for any course in the major. This includes BIO 107/L, BIO 108/L, CHE 114/L, BIO 208/L, PSY 203, PSY 206, MAT 123 and all required NUR courses.
 - b. Students who fail to obtain a minimum grade of C in a course required for the major will not be permitted to enroll in any course for which that course is a prerequisite, until the C grade requirement for the prerequisite course has been met.
 - c. Students are permitted to repeat a course required for the major only once. The procedures for repeating a course are explained in the college catalog.
 - d. Students accepted into the RN/BSN program must hold a current, unrestricted license as a registered professional nurse. Students not meeting the requirement at any time will be withdrawn from the nursing program. We offer conditional admission for NCLEX candidates with an associate's degree in nursing.
3. Probationary Standing:
 - a. Students who do not achieve a cumulative G.P.A. of 2.5, and/ or who earn a required course grade below C, are placed on probation, and are limited to 13 credits in the next semester in which they are registered.
4. Dismissal:
 - a. A student may remain on probation for no more than two successive semesters. Failure to meet standards after two successive semesters on probation will result in dismissal from the program.
 - b. Students who have achieved less than a C in two courses required for the major will be dismissed from the program regardless of GPA. Two lab grades of less than a C will be considered one course failure.
 - c. Students who fail to achieve a grade of C on a second attempt when repeating a course required for the major will be dismissed from the program.
 - d. Any student who is required in more than one instance to withdraw from a clinical course due to inability to demonstrate a required clinical competency will be dismissed.
 - e. Students demonstrating inability to deliver safe patient care or unprofessional conduct at any time are subject to course failure and dismissal from the program.
5. Readmission
 - a. The [School of Nursing undergraduate student handbook](#) outlines the policies and procedures related to readmission. The letter of dismissal will specify eligibility for and criteria related to readmission.
6. Clinical Course Requirements
 - a. All students enrolled in clinical nursing courses must have professional liability insurance. Students are automatically billed for this insurance when they register for a clinical course.

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- b. It is strongly recommended that all students carry health insurance coverage for the duration of the program. Students are responsible for any health care costs, even those that arise from clinical or laboratory assignments. The college assumes no responsibility for a student's medical care. Information regarding a basic injury and illness insurance plan is available through the college health center. By federal law, all International Students must carry health insurance coverage. International students will be billed directly by the college. Limited services are available through the student health service.
- c. A complete pre-entrance physical examination, which includes the New York state immunization requirement, is required by the college for all students. Information about these requirements can be found here: https://www.health.ny.gov/prevention/immunization/handbook/section_1_requirements.htm. Forms and information regarding college health requirements can be found online at: <http://www.dyc.edu/campus-life/support-services/health-center/> Additional questions regarding the college health record requirements may be addressed by calling the health center at 716-829-8777.
- In addition to D'Youville College health record requirements, sophomore, junior, and senior nursing courses require students to participate in a variety of clinical experiences, necessitating additional student health requirements to protect the health of the students as well as the patients with whom they interact. These health requirements also fulfill contractual agreements between the college and various clinical agencies to meet state, federal, and agency-specific requirements. These requirements are met by completing the Physical Examination form available on the School of Nursing Student Resources page here: <http://www.dyc.edu/academics/schools-and-departments/nursing/current-student-resources.aspx>.
- Prior to the first nursing course with a clinical lab component (NUR course with L after course number), students will be provided with specific instructions and a cohort-specific code in order to establish a medical document management account with **CastleBranch**, an online document management service. Student payment of a one-time fee directly to CastleBranch will be required in order to establish the account. It is the student's responsibility to establish the CastleBranch account and to upload all required health documentation for approval and storage by the specified deadline. Health requirement documentation to be uploaded includes but is not limited to the following:
- Annual physical assessment by physician or nurse practitioner; **MUST INDICATE CLEARANCE FOR ALL PHYSICAL ACTIVITY WITHOUT RESTRICTIONS**
 - 2 MMR vaccinations, or titer demonstrating immunity
 - 2 varicella vaccinations OR documentation by healthcare provider of chickenpox infection with month and year OR titer demonstrating immunity
 - Tetanus vaccination (Td booster) updated every 10 years
 - Proof of one dose of Tdap (with pertussis)—if unable to provide, must receive one dose of Tdap to replace one Td booster dose- should wait at least 2 years since last Td
 - Completed meningitis vaccination response form (date of vaccination or signature indicating vaccination declined)
 - Tuberculin screening—2 step screening initially, single step repeated annually
 - Annual influenza vaccine or signed form indicating vaccine declined.
- Students must meet all health requirements as identified above for all nursing courses with clinical lab components. Failure to meet health requirements will result in inability to attend on or off-campus clinical lab experiences and may necessitate course withdrawal.
- If a student experiences a change in physical or psychological health status while enrolled in a Nursing course with a clinical lab component (NUR course with L after course number), it is the responsibility of the student to provide documentation indicating clearance for participation in patient care activities in the clinical laboratory setting without restrictions or limitations. Such documentation must be submitted to the School of Nursing in order to continue or resume attendance for clinical lab experiences (on or off-campus). Note that the required documentation is not intended to disclose the nature of the health issue, but should simply state that the student is or has been managed by the healthcare provider, and that the student has full clearance for clinical lab participation. Documentation must include healthcare facility letterhead and must be signed by a healthcare provider. Documentation that simply indicates that the student "may return to school" is not adequate.
- d. Current American Heart Association certification in Basic Life Support (BLS) for the Professional Healthcare Provider is a requirement for all clinical nursing courses that include off-campus clinical experiences. Certification course must include hands-on practice and testing components; certification through an exclusively on-line course is not acceptable.
- e. Students must meet HIPAA requirements as indicated in specific course syllabi.
- f. Students may be required to provide personally identifiable information to meet the requirement of clinical agencies. Failure to supply such information will result in student's ineligibility to complete the nursing program.
- g. Students are responsible for transportation to and from clinical sites.

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- h. Students may not register for on-campus courses on their scheduled clinical day. Clinical days and times will vary based on clinical site availability. Students may be required to attend clinical experiences at days/times for which they are not registered based on clinical site availability.
- i. Any student enrolled in a clinical course who is absent from a clinical experience will be required to complete a make-up for the missed experience. The maximum amount of clinical absence time which may be made up is specified in the course syllabus for each clinical nursing course. Absences beyond the specified maximum will necessitate course withdrawal. Students should refer to the School of Nursing undergraduate student handbook for the complete clinical attendance policy.
- j. Clinical attire must be consistent with uniform guidelines as outlined in School of Nursing Undergraduate Student Handbook and in specific course syllabi.
- k. Any student re-entering the clinical nursing course sequence (NUR courses with lab component) after having not been enrolled in a NUR course with a Lab (L) component for a period of time longer than one semester will be required to demonstrate competency in previously learned clinical nursing skills in the on-campus skills lab prior to participating in clinical experiences in patient care settings.

Student Conduct

Students enrolled in the nursing program are expected to exhibit professional behavior, demonstrating responsible and mature conduct in both the academic and clinical environments. Professional behavior expectations relate not only to face-to-face interactions, but to actions and interactions in the electronic/ online environment as well. Unprofessional conduct will not be tolerated. Regardless of previous grades earned, unprofessional conduct may result in failure in and/or dismissal from the course and/or program. Disciplinary action will be at the discretion of the course and/or the School of Nursing faculty. Policies specific to the School of Nursing regarding grading, progression, retention, dismissal and unprofessional conduct are available to students in the School of Nursing undergraduate student handbook.

NCLEX Exam Preparation

Pre-licensure students must complete all steps in conjunction with each of the required nursing courses in preparation for the NCLEX-RN exam. This includes, but is not limited to, all testing, remediation, workshops and self-study sessions. A testing fee will be charged to each student per semester.

Course Requirements

Nursing

Nursing Degree: B.S.N.

Course Requirements for the Major:

In the specific areas of concentration:

NUR 110	Population Based Nursing.....	3
NUR 210	Health Assessment Across the Lifespan.....	4
NUR 210L	Health Assessment Lab.....	0
NUR 240	Fundamentals of Nursing.....	4
NUR 240L	Fundamentals Lab.....	0
NUR 260	Nursing Care of the Older Adult Chronic Conditions.....	5
NUR 260L	Nursing Care Lab–Older Adult Chronic Conditions.....	0
NUR 280	Pathophysiology for Nursing.....	3
NUR 285	Pharmacology for Nursing Practice.....	3
NUR 360	Nursing Care of the Adult Acute and Chronic Health Conditions.....	7
NUR 360L	Nursing Care Lab–Adult Acute and Chronic Health Conditions.....	0
NUR 380	Evidence Based Practice.....	3
NUR 470	Concepts in Community and Mental Health Nursing Care.....	6
NUR 470L	Nursing Care Lab–Community and Mental Health.....	0
NUR 471	Nursing Care of Childbearing and Childrearing Families	6
NUR 471L	Nursing Care Lab–Childbearing and Childrearing Families.....	0
NUR 480	Nursing Care of Patients With Complex Health Needs...	6

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NUR 480L	Nursing Care Lab--Patients With Complex Health Needs.....	0
NUR 485	Systems Leadership for Quality Care and Patient Safety.....	3

Total Credits: 53

In other academic areas required for the major:

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
CHE 114	Applied Chemistry for the Health Science.....	4
CHE 114L	Applied Chemistry for the Hlth Sci Lab.....	0
ENG 111	Introduction to Literature: Acad Writing.....	3
ENG 112	Humanities Seminar.....	3
FOC 101	Focus Seminar.....	0
MAT 123	Introduction to Applied Statistics.....	4
PSY 203	Developmental Psychology.....	3
CSC	One Elective from CSC 110 or CSC 120.....	3
ECO/PSC	One Elective from ECO 201, ECO 202, or PSC 201.....	3
HIS	One Elective from HIS 103, HIS 111, HIS 203, or HIS 204.....	3
PHI/RS	One Elective from PHI 201 or RS 201.....	3
SOC	One Elective from SOC 101 or SOC 102.....	3

Total Credits: 44

Major: 53

Major requirements in other academic areas: 44

Remaining core requirements: 24

Total: 121

NURSING R.N. TO B.S.N.

Overview

Programs offered in the School of Nursing for undergraduate students include:

- A four-year bachelor of science in nursing program
- A bachelor of science in nursing program for registered nurses with an associate degree or diploma and a current, unrestricted license.

All programs are registered by the New York State Education Department and accredited by the Commission on Collegiate Nursing Education (CCNE). Clinical affiliations are conducted with a majority of the health care institutions in Western New York. Additional information on graduate level programs is available in the D'Youville College Graduate and Professional Degree Programs Academic Catalog.

Program For Licensed R.N.s To B.S.N

The curriculum is designed for associate degree or diploma prepared professionals seeking a bachelor of science degree in nursing. Credit will be transferred from the students' associate's degree following an evaluation of transfer credits. Transcripts are evaluated individually for total number of exempted/ transferred credits or coursework. RNs with an AAS degree are able to complete the program in two years of full-time study in a convenient fully online program. 122 credits (including transfer credits) are required for BSN completion with a minimum of 30 credits from D'Youville College. A 50 percent tuition savings is available for RN students after financial assistance (if appropriate) is applied. The office of admissions and financial aid must have all requested financial data to process the special tuition rate.

Admission Requirements R.N. to B.S.N.

Associate's Degree R.N. Students Or Diploma Prepared

Professional R.N.s – B.S.N. Program:

- Minimum overall GPA of 2.5 on a 4.0 scale.
- Current unrestricted professional nurse (RN) license.
- Associate in Applied Science (AAS) degree from an accredited program with graduation date and, for new graduates, NCLEX eligible or holds a current unrestricted professional nursing (RN) license.
- A diploma nursing school prepared professional with a current unrestricted professional nursing (RN) license.
- New graduates are admitted on the condition that the NCLEX is passed by the end of the first semester.

Academic Regulations*

*Students admitted to the nursing program should refer to the current School of Nursing Undergraduate Student Handbook Academic Policies section for policies in effect at the time of admission to the nursing program.

1. Grade and G.P.A. Requirements
 - a. To be in good standing in the BSN program, students must:
 1. Maintain a cumulative G.P.A. of 2.5.
 2. Maintain a minimum grade of C in all 100-400 level courses required in the major and for all other courses required for the major as outlined in progression requirements.
 - b. A student who takes an incomplete grade in a prerequisite to a required nursing course will not be permitted to begin that nursing course until the prerequisite course is completed with an acceptable grade. An incomplete grade in a prerequisite course must be satisfied one week prior to the start of the course for which that course is a prerequisite.

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- c. For any NUR course with a lab/clinical component, both the theory component and the lab/clinical component must be repeated if a passing grade is not achieved for either theory (minimum grade of C) and/or clinical(s) (minimum grade of S).
 - d. A minimum average grade of 73% for course examinations is required prior to consideration of any other graded components of NUR courses. If a student's exam average is less than 73% the letter grade for the course will be based on that exam average only. A student who does not satisfactorily complete the clinical component of the NUR course will receive a grade of F.
2. Progression Requirements
- a. A minimum grade of C is required for any course in the major. This includes BIO 107/L, BIO 108/L, CHE 114/L, BIO 208/L, PSY 203, PSY 206, MAT 123 and all required NUR courses.
 - b. Students who fail to obtain a grade of C in a course required for the major will not be permitted to enroll in any course for which that course is a prerequisite, until the C grade requirement for the prerequisite course has been met.
 - c. Students are permitted to repeat a course required for the major only once. The procedures for repeating a course are explained in the college catalog.
 - d. Students accepted into the RN/BSN program must hold a current, unrestricted license as a registered professional nurse. Students not meeting the requirement at any time will be withdrawn from the nursing program. We offer conditional admission for NCLEX candidates with an associate's degree in nursing.
3. Probationary Standing
- a. Students who do not achieve a cumulative G.P.A. of 2.5, and/ or who earn a required course grade below C, are placed on probation, and are limited to 13 credits in the next semester in which they are registered.
4. Dismissal
- a. A student may remain on probation for no more than two successive semesters. Failure to meet standards after two successive semesters on probation will result in dismissal from the program.
 - b. Students who have achieved less than a C in two courses required for the major will be dismissed from the program regardless of GPA. Two lab grades of less than a C will be considered one course failure.
 - c. Students who fail to achieve a grade of C on a second attempt when repeating a course required for the major will be dismissed from the program.
 - d. Any student who is required in more than one instance to withdraw from a clinical course due to inability to demonstrate a required clinical competency will be dismissed.
 - e. Students demonstrating inability to deliver safe patient care or unprofessional conduct at any time are subject to course failure and dismissal from the program.
5. Readmission
- a. The School of Nursing undergraduate student handbook outlines the policies and procedures related to readmission. The criteria necessary for readmission will be defined in the letter of dismissal.
6. Clinical Course Requirements
- a. All students enrolled in clinical nursing courses must have professional liability insurance. Students are automatically billed for this insurance when they register for a clinical course.
 - b. It is strongly recommended that all students carry health insurance coverage for the duration of the program. Students are responsible for any health care costs, even those that arise from clinical or laboratory assignments. The college assumes no responsibility for a student's medical care. Information regarding a basic injury and illness insurance plan is available through the college health center. By federal law, all International Students must carry health insurance coverage. International students will be billed directly by the college. Limited services are available through the student health service.
 - c. A complete pre-entrance physical examination, which includes the New York state immunization requirement, is required by the college for all students. Information about these requirements can be found here: www.health.ny.gov/prevention/immunization/handbook/section_1_requirements.htm. Forms and information regarding college health requirements can be found online at: www.dyc.edu/campus-life/support-services/health-center/ Additional questions regarding the college health record requirements may be addressed by calling the health center at 716-829-8777.
- In addition to D'Youville College health record requirements, RN to BSN students participate in two clinical experiences, necessitating additional student health requirements to protect the health of the students as well as the patients with whom they interact. These health requirements also fulfill contractual agreements between the college and various clinical agencies to meet state, federal, and agency-specific requirements. These requirements are met by completing the Physical Examination form available on the School of Nursing Student Resources page here: www.dyc.edu/academics/schools-and-departments/nursing/current-student-resources.aspx. Prior to the first nursing course with a clinical lab component (NUR course with L after course number), students will be provided with specific instructions and a cohort-specific code in order to establish a medical document management account with **Castlebranch**, an online document management service. Student payment of a one-time fee directly to CastleBranch will be required in order to establish the account. It is the student's responsibility to establish the CastleBranch account and to upload all required health documentation for approval and storage

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by the specified deadline. Health requirement documentation to be uploaded includes but is not limited to the following:

- Annual physical assessment by physician or nurse practitioner
- 2 MMR vaccinations, or titer demonstrating immunity
- 2 varicella vaccinations OR documentation by healthcare provider of chickenpox infection with month and year OR titer demonstrating immunity
- Tetanus vaccination (Td booster) updated every 10 years
- Proof of one dose of Tdap (with pertussis)—if unable to provide, must receive one dose of Tdap to replace one Td booster dose- should wait at least 2 years since last Td
- Completed meningitis vaccination response form (date of vaccination or signature indicating vaccination declined)
- Tuberculin screening—2 step screening initially, single step repeated annually
- Annual influenza vaccine or signed form indicating vaccine declined.

Students must meet all health requirements as identified above for all nursing courses with clinical lab components. Failure to meet health requirements will result in inability to attend on or off-campus clinical lab experiences and may necessitate course withdrawal.

If a student experiences a change in physical or psychological health status while enrolled in a Nursing course with a clinical lab component (NUR course with L after course number), it is the responsibility of the student to provide documentation indicating clearance for participation in patient care activities in the clinical laboratory setting without restrictions or limitations. Such documentation must be submitted to the School of Nursing in order to continue or resume attendance for clinical lab experiences (on or off-campus). Note that the required documentation is not intended to disclose the nature of the health issue, but should simply state that the student is or has been managed by the healthcare provider, and that the student has full clearance for clinical lab participation. Documentation must include healthcare facility letterhead and must be signed by a healthcare provider. Documentation that simply indicates that the student “may return to school” is not adequate.

- d. Current certification in adult and child Cardiopulmonary Resuscitation (CPR) for the professional healthcare provider is a requirement of all clinical courses starting with NUR 200 level courses. Completion of exclusively on-line CPR courses is not acceptable. Acceptable courses must include a hands on practice and testing component.
- e. Students must meet HIPAA requirements as indicated in specific course syllabi.
- f. Students may be required to provide personally identifiable information to meet the requirement of clinical agencies. Failure to supply such information will result in student's ineligibility to complete the nursing program.
- g. Students are responsible for transportation to and from clinical sites.
- h. RN to BSN students will arrange clinical times and days with their preceptor.
- i. Clinical attire must be consistent with requirements for the clinical site. At D'Youville student ID badge will be required.

Student Conduct

Students enrolled in the nursing program are expected to exhibit professional behavior, demonstrating responsible and mature conduct in both the academic and clinical environments. Professional behavior expectations relate not only to face-to-face interactions, but to actions and interactions in the electronic/ online environment as well. Unprofessional conduct will not be tolerated. Regardless of previous grades earned, unprofessional conduct may result in failure in and/or dismissal from the course and/or program. Disciplinary action will be at the discretion of the course and/or the School of Nursing faculty. Policies specific to the School of Nursing regarding grading, progression, retention, dismissal and unprofessional conduct are available to students in the School of Nursing undergraduate student handbook.

Course Requirements

Nursing

Nursing Degree: Online R.N. to B.S.N.

Course Requirements for the Major:

The nursing courses listed below are required. The statistics and other academic courses below are required but if you have taken them already you may be able to transfer your credits. Credit will be transferred from your associate's degree following an evaluation of transfer credits. If you have already earned a bachelor's degree, the core requirements are waived.

In the specific areas of concentration:

NUR 380 Evidence Based Practice.....3

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NUR 442	Professional Issues.....	3
NUR 443	Clinical Foundations.....	3
NUR 461	Community & Population Based Nursing.....	3
NUR 462	Vulnerable Populations.....	3
NUR 481	Leadership to Advance Quality and Safety.....	3
MAT 123	Introduction to Applied Statistics.....	4

Total Credits: 22

In other academic areas required for the major:

ENG 111	Introduction to Literature: Acad Writing.....	3
ENG 112	Humanities Seminar.....	3
CSC 110	Computers and Computing.....	3
SOC	One Elective from SOC 101 or SOC 102.....	3
PSY	One Elective from PSY 101 or PSY 203.....	3
PHI/RS	One Elective from PHI 201 or RS 201.....	3
PSC/ECO	One Elective from PSC 201, ECO 201, or ECO 202.....	3
HIS	One Elective from HIS 103, HIS 203, HIS 204, or HIS 111.....	3

Total Credits: 24

Major credits: 22

Major credits in other academic areas: 24

Remaining core requirements: 24

Additional credits from transfer or college core: 52

Total Credits Required for Graduation: 122

OCCUPATIONAL THERAPY

Occupational Therapy Department

There are two occupational therapy entry-level programs. One is a five-year combined BS/MS program and the other is a three-year MS program. The BS/MS curriculum begins with a strong liberal arts core. The core curriculum provides students with a general knowledge base and the opportunity to develop analytical abilities that are the foundation for excellence in the professional competencies.

Students in the BS/MS program also declare and complete a structured minor. The MS degree in occupational therapy (OT) is an entry-level degree specifically created for people who have a B.A. or B.S. degree in another area of study and who meet the admission criteria. Both the BS/MS and the MS program offer professional development with faculty guidance and support. This guidance is a consistent process for students prior to, during, and after clinical placements.

Students complete six months of full-time fieldwork experience provided at a variety of settings across the country. In addition to a strong academic and clinical preparation, students are expected to complete a master's project involving research of a Critically Appraised Topic. The student-centered approach, in combination with the curriculum's academic, clinical and research components, provides thorough preparation for graduates to develop leadership and service in a variety of health care, educational and community settings, and to be successful in practice.

HUMAN OCCUPATION/OCCUPATIONAL THERAPY B.S./ M.S.

Overview

The educational experience is a five-year entry-level master's program with direct admission at the freshman level. Both the bachelor of science and master of science degrees are conferred at the end of the fifth year. In addition, each student is required to fulfill the requirements for a structured minor offered in the college.

Throughout the curriculum, studies of the arts and sciences are combined with professional studies of occupational therapy. This combination is essential to promote the knowledge, skills and attitudes necessary for occupational therapy practice.

Courses numbered at the 400-level and higher represent a combination of professional (undergraduate) and advanced (graduate) course material. Emphasis is placed on critical thinking and theoretical analysis of various assessments and intervention techniques throughout these courses.

Clinical and community visits are arranged in several courses. Three Level I Fieldwork courses expose students to the diverse needs and/or diagnoses of people and populations. These experiences prepare students for Level II Fieldwork internships in the graduate year.

The Level II Fieldwork experience includes two three-month placements in clinics/sites. Students are assigned to sites located throughout the United States and are responsible for all travel and living arrangements while on clinical placements. Placements are based on availability, student preference, interests and formal agreement with the site.

The occupational therapy (OT) program has been fully approved and registered by the New York State Education Department. It is designed to meet or exceed the 2011 standards for an Accredited Educational Program for Occupational Therapists and to prepare graduates to succeed in diverse and emerging areas of practice. The program has been accredited by the [Accreditation Council for Occupational Therapy Education \(ACOTE\)](http://www.acoteonline.org) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is 301-652-AOTA and its web address is www.acoteonline.org.

Once all requirements are completed, graduates are eligible to sit for the National Certification Examination for Occupational Therapists, administered by the National Board for the Certification of Occupational Therapists (NBCOT). A felony conviction may affect a student's ability to sit for the NBCOT certification exam. After successful completion of this exam, the individual is an occupational therapist, registered (OTR). Most states, including New York, require licensure in order to practice. State licenses are usually based on the results of the NBCOT certification exam, as well as the completion of at least six months of supervised fieldwork and graduation from an accredited occupational therapy program. The student is required to apply for licensure in the state(s) in which s/he will practice.

Admission Requirements

The program accepts applicants for full-time study from the freshman year. Students are admitted directly into the program and do not have to reapply for admission to the upper division. Admission requirements reflect the structure of the program as a five-year bachelor of science and master of science degree program.

In order to be eligible for direct acceptance into this program, students must submit proof of the following minimum criteria:

1. Combined SAT scores of at least 1,080 (or ACT score of 21).
2. A high school average of at least 85 percent.
3. High school rank in the upper half of the class.

Students who do not meet these criteria are encouraged to apply to the Career Discovery Program and apply to O.T. after successfully completing two full-time semesters.

Although D'Youville does not mandate that letters of recommendation or a letter of intent to study a specific discipline be included with the application, students applying to O.T. are strongly advised to include these documents with their application.

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Students must also demonstrate successful completion of the following high school courses: two years of math, one year of biology, and one year of chemistry. Physics is strongly recommended. Students who have not taken high school chemistry will be considered for admission with the understanding that a college preparatory chemistry course must be taken before beginning the curriculum. Students are strongly encouraged to gain competence in word processing before entering the program.

Thirty-six students are admitted to the program in the freshman year. These students are selected from the pool of applicants on the basis of the above criteria. Late applications are processed on a space-available basis. Students who have been out of high school for more than five years need not submit SAT scores. Selection is based on high school average and class rank.

Transfer students are accepted on a competitive, space-available basis. A minimum G.P.A. of 2.5 (on a 4.0 scale) is required to apply. Point of entry depends on the number of transfer credits accepted by the registrar, including major course requirements.

In order to register for any O.T. courses, students must have been formally accepted into the program.

Academic Regulations

Academic regulations for occupational therapy are in addition to general college policies for all part-time and full-time students. Full-time and part-time students must meet all academic regulations listed below.

1. Occupational Therapy Department Good Academic Standing
 - a. To be in good standing while enrolled in graduate courses (100-400 level) a student must:
 1. Maintain a minimum semester and cumulative average of at least 2.5.
 2. Obtain a minimum grade of "C" in all 100- to 300- level OT courses required in the major and for all other undergraduate course requirements for the major.
 3. Obtain a minimum grade of "B" in all credit-bearing 400-level OT courses. Students receiving a "B-", "C+" or a "C" in these courses will be placed on academic probation.
 4. A grade of "C-" or lower in any course required for the major is not applicable to the occupational therapy degree.
 - b. To be in good standing while enrolled in graduate courses (500- & 600-level), a student must:
 1. Maintain semester and cumulative averages of at least 3.0
 2. Obtain a minimum grade of "B" in all graduate-level work.
 - c. To be in good standing in OT courses that are graded as Satisfactory/Unsatisfactory (OT 313, OT 321, OT 323, OT 330, OT 432, OT 640, OT 641, OT 693), students must achieve a grade of Satisfactory. An Unsatisfactory grade in any of these courses constitutes a failure to meet academic regulations and will require the student to repeat the course.
2. Occupational Therapy Department Academic Probation
 - a. Students, whether full time or part time, who are not in good standing in the department are placed on OT department academic probation where they will remain until they meet the conditions of academic good standing for two full-time semesters. The conditions of OT department academic probation must be met in each successive (full- or part-time) semester, but probationary status is not removed until conditions are fulfilled during two full-time semesters.
 - b. Conditions of Occupational Therapy Department Academic Probation
 1. While on probation, failure to meet the following conditions will result in dismissal from the program. A student on probation must:
 - a. For all 100- and 300-level courses over the next two full-time semesters:
 1. Receive no less than a "C" in all courses;
 2. Achieve a semester and cumulative average of at least 2.5
 - b. For all 400- to 600-level courses over the next two full-time semesters:
 1. Receive no less than a "B" in all courses;
 2. Achieve semester and cumulative averages of at least 3.0
 - c. For the S/U graded OT courses listed in 1.c of the occupational therapy department academic regulations section, over the next two full-time semesters, receive grades of S.
3. Grades Below B Policy Pertaining to Degree Conferral
 - a. This policy applies to all 500- and 600-level OT courses. No more than a total of six credits or two courses (whichever better advances academic progress) with grades lower than B (B-, C+, C) are applicable to the OT degree. A grade of C- or lower is not applicable to the OT degree.
4. Dismissal From the Occupational Therapy Program
 - a. A student that is on OT department academic probation and does not meet the conditions of OT department academic probation will be dismissed from the OT department but not necessarily dismissed from the college. The dismissed student is encouraged to contact the director of retention services and the OT academic advisor.

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- b. A student dismissed from the OT department has the option to appeal the dismissal. In order to appeal, the student must follow the School of Health Professions' appeals process as indicated below under "Appeals."
5. Requirements for Level II Fieldwork
 - a. Students must have the permission of the instructor before registering for Level II fieldwork courses (OT 640, OT 641). In order to obtain permission, students must demonstrate the ability to meet academic and professional standards of the program and participate in faculty-led professional development interviews in the first and second years of study.
 - b. Receipt of a U grade in either OT 313, OT 321, OT 323, OT 330, OT 432 may alter the student's choices or plans for Level II Fieldwork.
 - c. Students who receive a U in a Level II fieldwork course or who voluntarily withdraw from the course must receive approval from the faculty in the OT major before repeating the course. Students will not be allowed to repeat more than one Level II fieldwork course.

Policy for Completion of Occupational Therapy Program in Timely Manner

Full-time and part-time students in the OT programs must complete all academic requirements within three (3) semesters or one 12-month calendar-year following successful completion of both Clinical Fieldwork I and II (OT 640 and OT 641). This includes the semester following clinical fieldwork Level II when students return to campus to complete Professional Issues, Community Practice and the research project course, and two (2) additional semesters. In addition to other academic requirements, Clinical Level II Fieldwork must be successfully completed within a 12-month period of completion of all other coursework or repetition of academic courses may be required.

A student who does not complete Clinical Fieldwork Level II within the required 12-month period may need to repeat one or more of the following courses:

- OT 429 Child and Adolescent Intervention
- OT 434 Adult and Geriatric Intervention
- OT 427 OT Methods of Evaluation and Documentation I
- OT 433 OT Methods of Evaluation and Documentation II

Students who do not complete their program within the time frame specified in this policy must petition for an extension of the time limit by submitting a completed "Request for Extension of Time to Complete the Master of Science Program" form, available in the graduate studies office. The form will be completed by the student and forwarded to the chair of occupational therapy, who will sign and forward this to the graduate studies office on the student's behalf. [Refer to "Extension to Complete Graduate Degree" in the academic policies and procedures section of the catalog for the remaining steps in the procedure.]

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

Course Requirements

Occupational Therapy

Degree: B.S./M.S.

Course Requirements for the Major:

OT Content:

OT 101	OT Process & Theoretical Foundations I.....	2
OT 106	Occupational Development I.....	4
OT 109	Medical & Social Conditions I.....	2
OT 210	Medical & Social Conditions II.....	2
OT 212	Occupational Development II.....	4
OT 214	Interpersonal Skills.....	2
OT 215	OT Delivery Systems.....	2
OT 217	Group Process.....	2
OT 313	Psychosocial Level I Fieldwork.....	1
OT 319	Functional Anatomy.....	5
OT 320	Neuroscience for Rehabilitation.....	5

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OT 321	Fieldwork Seminar I.....	0
OT 323	Pediatric & Adolescent Level I Fieldwork.....	1
OT 330	Adult & Geriatric Level I Fieldwork.....	1
OT 425	OT Process & Theoretical Foundations II.....	2
OT 427	OT Methods of Evaluation & Documentation I.....	2
OT 429	Child & Adolescent Intervention.....	4
OT 432	Fieldwork Seminar II.....	0
OT 433	OT Methods of Evaluation & Documentation II.....	2
OT 434	Adult and Geriatric Intervention.....	4
OT 635	OT Process & Theoretical Foundation III.....	2
OT 640	OT Clinical Fieldwork I.....	4
OT 641	OT Clinical Fieldwork II.....	4
OT 644	Management of OT Services I.....	1
OT 645	Management of OT Services II.....	2
OT 689	Professional Issues.....	2
OT 690	Community Practice.....	2-3

Total Credits: 64-65*Research Components:*

OT 524	Research Seminar.....	3
OT 602	Research Methods in Occupational Therapy.....	3
*OT 630	Continued Research Advisement.....	1
OT 693	Research Advisement-Project.....	3

Total Credits: 9-10** As needed**In other academic areas required for the major:*

PSY 101	General Psychology.....	3
BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
MAT 123	Introduction to Applied Statistics.....	4
PSY 206	Abnormal Psychology.....	3
MINOR	Four - five Electives determined by host department.....	12-15
CORE	Remaining core curriculum courses.....	45
CURRICULUM		

Total Credits: 75-78*Optional*

OT 605	Clinical Fieldwork III.....	0
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Total Credits:**Total: 148-150**

Subject to changes based on regulations by New York State of Education Departments and/or American Occupational Therapy Association requirements.

PHYSICAL THERAPY

Physical Therapy Department

The physical therapy department recognizes a choice of pathways for freshman acceptance into the sequential degree entry-level physical therapy program.

- B.S. in biology offered through the math and natural sciences department + D.P.T. program
- B.S. in exercise and sports studies offered through the exercise and sports studies department + D.P.T. program
- B.S. in health services offered through the health services administration department + D.P.T. program.

In this sequential-degree entry-level P.T. program, entering freshmen matriculate in and complete their B.S. degree through the respective departments. Upon completion of the B.S. degree, students who satisfy all D.P.T. admission requirements are accepted into the three-year doctor of physical therapy (D.P.T.) program.

For a further description of the D.P.T. curriculum and academic requirements, please refer to the [D'Youville College Graduate Catalog](#). Students will graduate with an entry-level doctor of physical therapy (D.P.T.) degree. The three-year graduate D.P.T. program is registered with the New York State Education Department (NYSED) and is fully accredited by the [Commission on Accreditation of Physical Therapy Education \(CAPTE\)](#) of the American Physical Therapy Association:

Commission Accreditation in Physical Therapy Education
1111 North Fairfax Street
Alexandria, Virginia, 22314

Telephone: 703-716-3245
E-mail: accreditation@apta.org
Website: www.capteonline.org

PHYSICAL THERAPY B.S. + D.P.T.

Overview

The physical therapy department recognizes a choice of pathways for freshmen acceptance into the sequential degree entry-level physical therapy program.

- B.S. in biology offered through the math and natural sciences department+ D.P.T. program
- B.S. in exercise and sports studies offered through the exercise and sports studies department+ D.P.T.
- B.S. in health services offered through the health services administration department + D.P.T.

In this sequential-degree entry-level P.T. program, entering freshmen matriculate in and complete their B.S. degree through the respective departments. Upon completion of the B.S. degree, students who satisfy all D.P.T. admission requirements are accepted into the three-year doctor of physical therapy (D.P.T.) program. For a further description of the D.P.T. curriculum and academic requirements, please refer to the [D'Youville College Graduate Catalog](#).

Students will graduate with an entry-level doctor of physical therapy (D.P.T.) degree. The three-year graduate D.P.T. program is registered with the New York State Education Department (NYSED) and is fully accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE) of the American Physical Therapy Association:

Commission on Accreditation in Physical Therapy Education
 1111 North Fairfax Street
 Alexandria, Virginia 22314

Telephone: 703.706.3245
 E-mail: accreditation@apta.org
 Website: www.capteonline.org

Classification Of Students

Undergraduate students receiving an early admission guarantee into the physical therapy major are classified by their undergraduate major of choice while completing the bachelor's degree and hold a specialization code for DPT.

Sequential B.S. + D.P.T. Degree Admissions Requirements

(undergraduate acceptance into sequential degree pathway)

Freshmen or undergraduate transfer students accepted into any of the three sequential-degree B.S. + D.P.T. programs must satisfy the following admission criteria:

Freshmen admission requires:

1. Combined SAT scores of at least 1,170 (Math and Verbal) or composite ACT score of 24, and
2. High school average of at least 85 percent or 2.85 on a four point scale, and
3. Successful completion of two years of math and three years of science; physics is strongly recommended

Transfer student admission requires:

1. Satisfaction of all freshman admission requirements above, and
2. Minimum cumulative G.P.A. of 2.75 (after a minimum of 2 full time semesters of study), and
3. Minimum GPA for any D.P.T. prerequisite courses of 3.20.

Note: For transfers, when calculating both overall G.P.A. and D.P.T. prerequisite GPA, grades from other colleges or universities will be included. Grades for any D.P.T. prerequisite course lower than a B will not be accepted from any other college or university, and the course will need to be repeated at D'Youville College.

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While students are enrolled in the sequential degree undergraduate pathway, the following requirements apply to be in good academic standing:

1. Maintain a minimum cumulative G.P.A. of 3.0 after two semester of full-time study at D'Youville College.
2. Maintain a cumulative G.P.A. of 3.20 for all DPT prerequisite courses.
3. Earn a minimum grade of B in all DPT prerequisite courses.
4. Students may earn only two grades of C, C+ or B- for DPT prerequisite courses. Students who achieve a third grade below a B or a single grade below a C will be placed on academic probation and be required to submit a revised curriculum plan for retaking at least one of the courses in which a grade below a B was earned.
5. Students who earn more than three grades below a B in the DPT prerequisite courses will be removed from the sequential degree pathway. Students removed from the sequential degree pathway may be permitted to continue their degree program if they otherwise meet all academic requirements of that program. Student may not reapply to any sequential degree pathway at the college.

D.P.T. Admission Requirements

(graduate acceptance into D.P.T. program)

1. Conferral of B.S. degree, and
2. Evidence of capability to succeed in D.P.T. program as demonstrated by a cumulative undergraduate G.P.A. of at least 3.00 (on a 4.00 system), and
3. Evidence of completion of all prerequisite courses completed with a grade of B or better with the exception that a maximum of two undergraduate course grades may be a C or better (C, C+, B-). The applicant must also have a pre-requisite G.P.A. of 3.20. Pre-requisite courses are equivalent to:
 - a. Math and Natural Sciences
 - Two 3-credit courses in human-based science or applied science courses
 - One course in human anatomy with lab
 - One course in human physiology with lab —may be two courses in human anatomy with physiology with labs
 - Two courses in chemistry with labs
 - Two courses in physics with labs
 - One semester of statistics
 - b. Social and Behavioral Sciences
 - One course in psychology
4. Evidence of the completion of 60 or more hours of volunteer, work or internship with a vulnerable population (e.g., children, individuals who are socioeconomically disadvantaged, clinical populations, individuals with disabilities), and
5. Two letters of recommendation addressing leadership potential and ability to work with others, and
6. Submission of Graduate Record Examination (GRE) score from GRE exam taken no greater than five years prior to application filing, and
7. Willingness to conform to published college and program policies and procedures.

Physical Therapy Department Technical Standards

The Physical Therapy Department at D'Youville College is prepared to make reasonable accommodations in order to allow students with disabilities an equal opportunity to participate and succeed in the academic program. An accommodation must be reasonable and may not be provided if it fundamentally alters the nature of the curriculum, including the didactic component, laboratory sessions, or supervised practice experiences, requires substantial program modification or lowering of academic standards, causes undue hardship for the college or affiliating agencies, or jeopardizes the health or safety of the student or others.

No otherwise qualified person shall be excluded from participation, admission, or matriculation, or denied benefits solely by reason of his or her disability. The physical therapy department will not discriminate against qualified individuals but will expect applicants and students to meet certain minimum academic and technical standards. *Please refer to the graduate catalog for a complete description of the Physical Therapy Department Technical Standards.*

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

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Course Requirements**Physical Therapy***Sample Undergraduate P.T. prerequisite courses:***Math & Natural Sciences**

- Two 3-credit courses in human-based science or applied science courses
- One course in human anatomy with lab
- One course in human physiology with lab—may be two courses in human anatomy with physiology with labs
- Two courses in chemistry with labs
- Two courses in physics with labs
- One semester of statistics

Social & Behavioral Sciences

- One course in psychology

Sequential Degree: Six-Year B.S. + D.P.T.*D.P.T. program:*

BIO 639	Human Gross Anatomy.....	6
BIO 639L	Gross Anat Lab.....	0
GRA 601	Research Methodology and Design.....	3
PT 500	Essential Skills I.....	3
PT 500L	Essential Skills I Lab.....	1
PT 502	Pathophysiology for Physical Therapists.....	3
PT 503	Clinical Orientation Seminar I.....	0
PT 504	Clinical Orientation Seminar II.....	0
PT 505	Intro PT and Health Care Systems.....	2
PT 506	Physiology of Therapeutic Exercise.....	2
PT 506L	Physiology of Therapeutic Exercise Lab.....	1
PT 510	Essential Skills II.....	2
PT 510L	Essential Skills II Lab.....	1
PT 513	Orthopedic Physical Therapy I.....	2
PT 513L	Orthopedic I Lab.....	2
PT 514	Integumentary Examination & Intervention.....	2
PT 515	Professional Development I.....	1
PT 518	Biomechanics and Kinesiology for PT.....	2
PT 518L	Biomechanics and Kinesiology Lab.....	1
PT 519	Lifespan Development.....	1
PT 519L	Lifespan Development Lab.....	1
PT 520	Lifespan Development II.....	1
PT 520L	Lifespan Development II Lab.....	1
PT 522	Functional Anatomy.....	2
PT 522L	Functional Anatomy Lab.....	1
PT 550	Clinical Neuroscience.....	5
PT 550L	Clinical Neuroscience Lab.....	0
PT 552	Cardiopulmonary Physical Therapy.....	2
PT 552L	Cardiopulmonary Lab.....	1
PT 552S	Cardiopulmonary Seminar.....	0
PT 574	Clinical Fieldwork I.....	3
PT 602	Neurodevelopmental Pediatrics.....	2
PT 602L	Neurodevelopmental Pediatrics Lab.....	1
PT 604	Clinical Orientation Seminar III.....	0
PT 606	Neuromuscular Assessment.....	2
PT 606L	Neuromuscular Assessment Lab.....	1
PT 614	Community Health & Wellness.....	3
PT 613	Orthopedic Physical Therapy II.....	2
PT 613L	Orthopedic II Lab.....	2

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PT 615 Professional Development II..... 1
PT 618 Rehabilitation II..... 3
PT 618L Rehabilitation Lab II..... 2
PT 627 Application of Research Methods in PT..... 4
PT 627L App of Research Methods in PT Lab..... 0
PT 628 Research Seminar..... 3
PT 674 Fieldwork II..... 4
PT 675 Clinical Fieldwork III..... 4
PT 701 Clinical Decision in Therapeutic Exercise..... 2
PT 701L Clinical Decision in Therapeutic Exercise Lab..... 1
PT 703 Education Advocacy Consultation..... 3
PT 709 Business Management Strategies for Physical
Therapists..... 2
PT 725 Clinical Fieldwork IV..... 5
PT 748 Differential Diagnosis..... 3
PT 799 NPTE Examination Preparation..... 0
PT-XXX Graduate Elective Credits..... 5

Total Credits: 107

PHYSICIAN ASSISTANT

Physician Assistant Department

The physician assistant department offers a 4 1/2 year combined B.S./M.S. degree. Graduates are eligible for the Physician Assistant National Certification Examination developed and administered by the National Commission on Certification of Physician Assistants.

The physician assistant department has been approved and registered by the New York State Education Department and is accredited by the [Accreditation Review Commission on Education for the Physician Assistant, Inc. \(ARC-PA\)](#). Students in the PA department are trained to serve a variety of patient populations with sensitivity and compassion, with an emphasis on primary care and integrative medicine.

Program policies must apply to all students, principal faculty, and the program director regardless of location. Physician Assistant students must not be required to work for the program.

* Principal faculty, the program director and the medical director must not participate as health care providers for students in the program.

PHYSICIAN ASSISTANT B.S./M.S.

Combined B.S./M.S. P.A. Curriculum

The physician assistant department offers a 4 1/2 year combined B.S./M.S. degree. All students admitted to the department are expected to complete at least the last three years of the curriculum through full-time studies at D'Youville College. Students who successfully complete all curriculum requirements will be awarded a B.S./M.S. in physician assistant studies, and will be eligible to sit for the Physician Assistant National Certification Examination, developed and administered by the National Commission on Certification of Physician Assistants.

The physician assistant department has been approved and registered by the New York State Education Department, and is accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA).

Within the B.S./M.S. curriculum, the first two years (Phase I) are devoted to the study of the arts, humanities and sciences, which satisfy general education core requirements of the college's baccalaureate degree and other prerequisite requirements specified by the departmental curriculum. The third year, begins the professional phase of study (Phase II), and prepares students with a broad, comprehensive base in clinical medicine, pharmacology, physical diagnosis, clinical laboratory medicine, behavioral and preventive medicine. The professional phase also allows students to develop interpersonal, communication and critical-thinking skills, which are essential to facilitate effective and empathetic relationships with patients and effective collaboration with other health care professionals. The fourth year of the curriculum allows the student to apply and refine his/her critical thinking and clinical skills while working under the guidance and supervision of clinical preceptors. During the clinical phase, students will complete ten mandatory clinical rotations and the choice of two elective clinical rotations. The students also complete a research project during this phase.

Admissions Criteria B.S./M.S.

For the 4 1/2-year B.S./M.S. track, traditional freshmen will be admitted directly into the freshman year, and transfer students may be admitted directly into the program at any point in Phase I of the curriculum. Class placement for transfer students will be dependent on successful completion of prerequisites and competitive availability of class seats. Once accepted into the department, students are expected to complete all preprofessional requirements at D'Youville. The following preprofessional courses must be taken at D'Youville College: BIO 303 Biochemistry, BIO 339 Human Gross Anatomy, and BIO 307 Pathophysiology.

If a transfer student has satisfactorily completed these specific courses with an earned grade of B- or better at another institution within 18 months prior to program entry, the course content will be reviewed by the department chair and Registrar to determine transferability. Qualified applicants are determined, via web-based application materials and personal interview, on the basis of several criteria: ability to master the rigorous academic content of the program, verbal and written communication skills, emotional maturity, and understanding of and motivation to enter the profession.

*All students (traditional freshman and transfer) must show evidence of a minimum of 80 hours of direct patient interaction to be considered for admission.

Minimum Admission Academic Requirements

Incoming Freshmen

Admission to the Physician Assistant program is offered to a select group of students who meet the following criteria. Applications and all required documents must be submitted by November 1 for consideration.

- Combined SAT score of at least 1170 (Math & EBRW sections) or a composite ACT score of 24 or higher
- A minimum class average of 85 percent
- Three years of math, one year of Chemistry and one year of Biology. Math and science subjects must have a minimum grade of at least 83 (B)
- Three letters of recommendation
- Admissions essay specifically addressing the topic of why the student wants to pursue a career as a Physician Assistant
- Official documentation of at least 80 completed hours of direct patient interaction either through volunteer activities or employment activities

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- Compliance with technical standards of the profession as noted in the application

Transfer Students

Admission to the Physician Assistant program is offered to a select group of transfer students who meet the following criteria. Applications and all required documents must be submitted and verified by CASPA by October 1st. Please be aware that verification of applications can take up to 4 weeks.

- A minimum undergraduate overall and science GPA of a 3.0 on a 4.0 scale
- Earned grade of B- or better in all science courses (which can only be transferred in for direct credit to the program if they are less than six years old at the time of acceptance into the department)
- Three letters of recommendation
- Admissions essay specifically addressing the topic of why the student wants to pursue a career as a Physician Assistant
- Documentation of at least 80 completed hours of direct patient interaction either through volunteer activities or employment activities
- Compliance with technical standards of the profession as noted in the application

To be considered for an interview, all applicants must accrue and provide official documentation of at least 80 hours of direct patient interaction either through volunteer or employment activities. Applications without this documentation will not be considered for an interview.

Application process

All students are accepted on a competitive space-available basis, based upon the above criteria. Maximum accreditation size limit is 40 students per cohort.

Following review of the written application materials, a pool of applicants are selected for a formal interview. Not all applicants satisfying minimum admission requirements will be selected for an interview. Interviews are scheduled between October and January. All materials must be received by the office of admissions by October 1 for transfer applicants and November 1 for traditional freshman applicants. Placements are made on a competitive, space available basis. Should students qualify, acceleration may be possible into an earlier graduation class. Incomplete applications will not be reviewed. Candidates must also submit an essay and three references, as specified on the PA department website.

Student Responsibilities

The physician assistant department is a demanding program in coursework, time commitment and financial obligations. Students enrolled in the PA department must complete four summer sessions in addition to the nine regular full-time semesters, for a total of 175-credit hours. Clinical rotations will require additional expenses for travel and room and board. All students are responsible for their own transportation to and from clinical rotations, and extended daily travel distances may be required. It is required that each student have a valid driver's license and his or her own vehicle. Due to the time commitment of the program, particularly in the professional phase, off-campus work is not recommended.

Students are encouraged to be a member of the D'Youville College Student Physician Assistant Association.

PA students must not be required to work for the program.

Students must not substitute for or function as instructional faculty.

Academic Regulations

The 4 1/2-year B.S./M.S. curriculum is composed of two phases, which extend across five years. Phase I, the pre-professional phase, includes the first two years of study, which is comprised of the prerequisites and core curriculum. Phase II is the third, fourth, and fifth year, which is the professional phase, and includes the didactic preparation for practice and clinical rotations, and the master's curriculum. Each phase of the program is considered a prerequisite to the next phase and must be satisfactorily completed prior to advancement. In addition to general college policies and regulations, which apply to all students, academic regulations of the physician assistant department are applicable to both full- and part-time students. They include the following:

PROGRAM CONTENTS AND REQUIREMENTS 4 1/2-YEAR B.S./M.S.

1. The physician assistant curriculum is demanding in coursework, time, commitment and financial obligations. Students enrolled in the 4 1/2-year B.S./M.S. curriculum must complete four summer sessions in addition to the nine regular full-time semesters. Clinical rotations will require additional expenses for travel and room and board. Due to the time commitment to the program, particularly in the professional phase of the curriculum, off-campus work is not recommended.

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2. As noted above, the physician assistant curriculum is composed of two distinct academic phases. Each phase of the program is considered a prerequisite to the next phase and must be satisfactorily completed prior to advancement.
3. **Student Conduct:** Students enrolled in the D'Youville College physician assistant department are expected to demonstrate high standards of personal behavior and professional conduct in all academic and clinical environments. Dishonesty or misconduct, whether academic or professional, in any form will not be tolerated. College policy regarding academic dishonesty will be followed with the possible recommendation that the offender be dismissed from the physician assistant department. Professional misconduct will be reviewed by the progress committee and may result in probation and/or dismissal from the department. Unprofessional behavior in the clinical setting will result in failure of the rotation regardless of course mastery and may result in immediate dismissal from the department.

Other specific requirements include the following:

Phase I: Good Academic Standing

1. Once students are matriculated and enrolled in the first two years of the curriculum, they must maintain a cumulative science grade point average (G.P.A.) of at least 3.00.
2. Once students are matriculated and enrolled in the first two years of the curriculum, they must maintain an overall semester and cumulative grade point average (G.P.A.) of at least 3.00.
3. A minimum grade of a B- for all science courses (C for all other coursework) specified as a Phase I prerequisite in the curriculum plan is required. However, students must be aware of the 3.0 minimum semester and cumulative G.P.A. requirements and 3.0 minimum cumulative science G.P.A.

Phase I: Academic Probation

1. If the student fails to achieve a 3.00 (semester and cumulative) overall and science G.P.A. (cumulative), they will be placed on probation, will be required to retake courses at D'Youville in which they did not meet the minimum, and may also be decelerated. These are the minimum grade standards of all PA department curricular requirements.
2. If a student fails to achieve these standards in any department required course, they will be placed on probation.
3. Students who do not meet academic requirements for two science course requirements in the same semester will be automatically decelerated into the next graduating class, and at the very least, placed on probation.
4. A student will be placed on academic probation when there is a failure to satisfy specific departmental academic standards or regulations. The period of probation extends until completion of the two full-time semesters immediately following conferral of probation status and includes any coursework completed during summer term while on probation.
5. Academic deficiencies that result in departmental academic probation must be corrected within the two full-time semesters that immediately follow the date of probation.
6. Probationary students on a decelerated or part-time schedule must continue to meet all conditions of the probation while on a part-time schedule and will remain on probation until the completion of their next two full-time semesters.

Phase I: Dismissal

1. Failure to meet the conditions of probation will result in dismissal from the department.
2. To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, the student must follow the appeal procedures which are available at www.dyc.edu/appeals.
3. Dishonesty or misconduct, whether academic or professional in any form, will not be tolerated. College policy regarding academic dishonesty will be followed with the recommendation that the offender be dismissed from the physician assistant department.

Phase II: Good Academic Standing

1. A minimum grade of B- (80 percent) is required for all courses included during the didactic year of curriculum (Phase II) with the exceptions of PA 311 Clinical Skills, and PA 305 Behavioral Medicine in which the minimum passing grade is 73 percent.
2. Students are required to obtain permission of the department faculty prior to registration in clinical rotations included in Phase II of the program.
3. All 400-level clinical rotations must be completed with a minimum grade of C (73 percent). All 500-level clinical rotations must be completed with a minimum grade of B (83 percent). Formal or informal remediation may be required prior to returning to the clinical experiences. All clinical rotations must be completed within 21 months of completion of didactic academic coursework or repetition of academic courses may be required.
4. A student must possess current certification in Cardiopulmonary Resuscitation (CPR), child abuse recognition certification, HIPAA and New York State in-servicing on bloodborne pathogens, prior to matriculation into the clinical phase of the program. All students in the clinical and graduate phase will be required to have professional liability insurance specified by the program. Students must also have evidence of vaccinations/ immunizations and annual history and physical examinations in compliance with CDC recommendations for health care professionals.

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- During the final year of study in the 4 1/2-year B.S./M.S. degree program, as a requirement of the primary care rotation, all senior level students must satisfactorily complete a community service project with a corresponding poster presentation. This project must have prior approval of the department and the IRB and be overseen by a faculty advisor.
- A minimum passing grade for all masters-level courses will be a B (83 percent). Achieving and maintaining a minimum G.P.A. of 3.0 is a requirement for completion of the program.
- All master's degree candidates must satisfactorily complete a research project with a corresponding presentation. This project must have prior approval of the department and the IRB and be overseen by a faculty advisor.

Phase II: Academic Probation

- Students who fail to obtain the required grades in any Phase II course during the didactic year will not be permitted to progress in the professional curriculum without review by the progress committee, which may entail probation, deceleration and possible remediation. Students may be permitted to decelerate and repeat 300-level courses on a case-by case basis, depending on their past academic history and next available class seat. Any department-required course may be repeated only once. Students who must repeat a 300-level course will be required to repeat and demonstrate continued proficiency in any or all other 300-level courses prior to enrollment in 400-level courses.
- Despite meeting minimum academic standards, permission to progress into the clinical phase may be denied on the basis of demonstrated weakness or inability to meet the program academic and/or professional standards.
- Students who do not meet these minimum criteria in any 400- or 500-level clinical rotation course, or who voluntarily withdraw from the clinical rotation, must receive formal approval by the faculty to repeat that course or to continue with subsequent rotations. A student will not be allowed to repeat more than one 400- or 500-level clinical course required in the major.
- If a student fails to obtain the minimum passing grade for any course in the clinical phase of the curriculum, the student will be placed on academic probation. Failure to meet the conditions of probation will result in dismissal from the department.
- To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, the student must follow the appeal procedures which are available at www.dyc.edu/appeals.
- Dishonesty or misconduct, whether academic or professional in any form, will not be tolerated. College policy regarding academic dishonesty will be followed with the recommendation that the offender be dismissed from the physician assistant department.

Phase II: Dismissal

- Second failure of the same 300-level course will result in automatic dismissal from the physician assistant department. Any student who fails more than one 300-level course in the same semester will be automatically dismissed from the department.
- Failure of a second 400- or 500-level course will result in dismissal from the department.
- Failure to meet the academic standards or conditions of probation will result in dismissal from the department.
- Failure to meet the conditions of probation will result in dismissal from the department.

Appeals

To appeal a decision rendered by the School of Health Professions faculty/administration that has academic consequences, you must follow the appeal procedures which are available at www.dyc.edu/appeals.

Curriculum Sequence

4 1/2 Year BS/MS Degree Curriculum-First & Second Year

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
ENG 111	Introduction to Literature: Acad Writing.....	3
CSC 110	Computers and Computing.....	3
**PSY 203	Developmental Psychology.....	3
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
ENG 112	Humanities Seminar.....	3
**MAT 123	Introduction to Applied Statistics.....	4
CHE	CHE-219 & CHE-219L or CHE-209 & CHE-209L.....	4
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0

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HSM 203	Medical Terminology.....	1
*BIO 303	Biochemistry.....	3
*BIO 339	Human Gross Anatomy.....	6
BIO 639L	Gross Anat Lab.....	0
**PHI 214	Challenges of Death.....	3
**PHI 312	Bioethics Seminar.....	3
*BIO 307	Pathophysiology.....	3

Total Credits: 59

**Courses must be taken at D'Youville unless successfully completed within 18 months prior to matriculation.*

*** Fulfills departmental curriculum requirements and core requirements.*

Courses PHI 214 can be replaced by RS 214 and PHI 312 can be replaced by RS 312.

PHI/RS	One elective from PHI-201 or RS-201.....	3
SOC	One course in Sociology.....	3
HUM	Three courses in Humanities.....	9
PSC/ECO	One course in Political Science or Economics.....	3
HIS	One course in History.....	3
Elective	Three Electives.....	9

Total Credits: 30

Core requirements subtotal: 89

Didactic Year Requirements - Third Year

PA 303	Clinical Medicine I.....	5
PA 305	Behavioral Medicine.....	2
PA 309	Clinical Laboratory Medicine I.....	2
PA 311	Clinical Skills.....	3
PA 312	Physical Diagnosis I.....	2
PA 312L	Physical Diag Lab.....	0
PA 335	Pharmacology I.....	3
PA 304	Clinical Medicine II.....	5
PA 310	Clinical Laboratory Medicine II.....	2
PA 313	Physical Diagnosis II.....	2
PA 313L	Physical Diagnosis Lab.....	0
PA 336	Pharmacology II.....	3

Total Credits: 29

Clinical Year Requirements - Fourth Year

~PA 401B	Internal Medicine.....	3
~PA 401C	Family Medicine.....	3
~PA 402	General Surgery.....	3
~PA 403	General Pediatrics.....	5
~PA 404	Obstetrics and Gynecology.....	3
~PA 405	Psychiatry.....	3
~PA 406	Emergency Medicine.....	3
~PA 407	Geriatrics.....	1
~PA 408	Orthopaedics.....	3
PA 412/413	Senior Seminar Clinical Enrichment.....	0

Total Credits: 27

~ Denotes Clinical Rotation

Masters Level

PA 500	Professional Issues.....	1
~PA 501	Elective Clinical Rotation I.....	3
~PA 502	Elective Clinical Rotation II.....	3
~PA 503	Primary Medicine Core Practicum.....	6
PA 504	Graduate Seminar I.....	1
PA 505	Graduate Seminar II.....	1
PA 603	Applied Research Methods.....	3
PA 604	Applied Project Seminar I.....	3

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PA 605	Applied Project Seminar II.....	3
PA	Two Electives from PA 509, PA 511, PA 512 or PA 606...	6
		Total Credits: 30

~ Denotes Clinical Rotation

Total of B.S./M.S. Degree: 175**Course Requirements**

Physician Assistant

Degree: B.S./M.S.

Course Requirements for the Major:

In the specific areas of concentration:

PA 303	Clinical Medicine I.....	5
PA 304	Clinical Medicine II.....	5
PA 305	Behavioral Medicine.....	2
PA 309	Clinical Laboratory Medicine I.....	2
PA 310	Clinical Laboratory Medicine II.....	2
PA 311	Clinical Skills.....	3
PA 312	Physical Diagnosis I.....	2
PA 313	Physical Diagnosis II.....	2
PA 335	Pharmacology I.....	3
PA 336	Pharmacology II.....	3
PA 401B	Internal Medicine.....	3
PA 401C	Family Medicine.....	3
PA 402	General Surgery.....	3
PA 403	General Pediatrics.....	5
PA 404	Obstetrics and Gynecology.....	3
PA 405	Psychiatry.....	3
PA 406	Emergency Medicine.....	3
PA 407	Geriatrics.....	1
PA 408	Orthopaedics.....	3
PA 500	Professional Issues.....	1
PA 501	Elective Clinical Rotation I.....	3
PA 502	Elective Clinical Rotation II.....	3
PA 503	Primary Medicine Core Practicum.....	6
PA 504	Graduate Seminar I.....	1
PA 505	Graduate Seminar II.....	1
PA 603	Applied Research Methods.....	3
PA 604	Applied Project Seminar I.....	3
PA 605	Applied Project Seminar II.....	3
PA	Two Electives from PA 509, PA 511, PA 512 or PA 606...	6
		Total Credits: 86

In other academic areas required for this major:

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 208L	Microbiology Lab.....	0
*BIO 339	Human Gross Anatomy.....	6
*BIO 303	Biochemistry.....	3
*BIO 307	Pathophysiology.....	3
BIO 639L	Gross Anat Lab.....	0
CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1

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CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
MAT 123	Introduction to Applied Statistics.....	4
PHI 214	Challenges of Death.....	3
PHI 312	Bioethics Seminar.....	3
PSY 203	Developmental Psychology.....	3
HSM 203	Medical Terminology.....	1
	Total Credits: 50	
Core	Remaining core requirements.....	39
	Total Credits: 39	

Total (B.S/M.S): 175

*Courses must be taken at D'Youville College. No transfer credit will be given for courses completed over 18 months prior to the beginning of professional phase courses.

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SCHOOL OF PHARMACY

School of Pharmacy

The School of Pharmacy is designed to prepare students to practice in an inter-professional patient centered environment. Graduates of our accredited program will be taught to communicate effectively with patients and other health care practitioners. Students will learn to solve problems related to drug therapy regimens, and to develop and evaluate programs to improve the health of the communities they serve.

D'Youville School of Pharmacy is committed to the exploration and validation of ideas through research, critical inquiry and scholarly activity. The D'Youville SoP believes that tomorrow's pharmacists must be committed to a lifetime of learning and service to their profession and community.

D'Youville School of Pharmacy is proud to offer doctoral students both U.S. and International IPPE and APPE Clinical Rotations. U.S. and International IPPE Clinical Rotations start in the First Professional year of study.

PHARMACEUTICAL SCIENCE BS

BACHELOR OF SCIENCE IN PHARMACEUTICAL SCIENCE PROGRAM OVERVIEW

A Bachelor's of Science in Pharmaceutical Science (BSPS) prepares students to work in entry-level technical positions in the pharmaceutical, government, and academic research industries. The BSPS program is for anyone interested in a career in drug research and development, pharmaceutical marketing, or drug regulation.

Students in the BSPS program will be exposed to areas such as the chemistry of medicines, drug discovery, product development, and ethical considerations in research and practice. Those enrolled will have opportunities to use basic chemistry, mathematics, and biological training in a wide range of specialized research opportunities in the School of Pharmacy's state-of-the-art research laboratory.

Since the BSPS is an undergraduate degree, graduates with this degree are not eligible for licensure or to practice as a pharmacist without further education. However, graduates often go on to pursue graduate school or progress into professional degree programs such as pharmacy, medicine, allied health, or law.

Admissions Requirements

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. Students entering the BSPS program directly after high school should be prepared to enter into this competitive and rigorous mathematics and science-based degree.

Admission requirements for applicants entering as freshman are as follows:

Admission Requirements
Combined SAT scores of at least 1080 (math and verbal) or ACT equivalent.
A high school average of at least 85 percent, or 2.85 on a 4.0 scale.
High school rank in the upper 50% of class.
Two letters of professional recommendation.
Transfer students are required to have a minimum of C or better in each of the courses for which credit is transferred.

Pharmaceutical Sciences

Degree: BS

Course Requirements for the Major:

In the specific areas of concentration:

PPS 301	Principles of Pharmaceutical Sciences I.....	2
PPS 302	Principles of Pharmaceutical Sciences II.....	3
PPS 304	Pharmaceutical Dosage Forms.....	3
PPS 306	Principles of Pharmaceutical Sciences Practicum.....	2
PPS 401	Principles of Pharmaceutical Sciences III.....	2
PPS 402	Principles of Pharmaceutical Sciences IV.....	2
PPS 403	Drug Discovery and Development.....	2
PPS 404	Individualized Medicine: Informatics and Pharmacogenomics.....	2
PPS 405	Laboratory Research in the Pharmaceutical Sciences I.3	
PPS 406	Laboratory Research in the Pharmaceutical Sciences II.3	

Total Credits: 24

In other academic areas required for the major:

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BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
CHE 220	Organic Chemistry II.....	3
CHE 220L	Organic Chemistry II Lab.....	1
MAT 123	Introduction to Applied Statistics.....	4
MAT 125	Calculus I.....	4
PHY 101	General Physics I.....	3
PHY 101L	Gen Physics Lab I.....	1
PHY 112	Introduction to Physics.....	3
PHY 112L	Introduction to Physics Lab.....	1
PHY	PHY 112 and PHY 112L; or PHY 102 and PHY 102L (PHY 102 requires completion of MAT 126 Calculus II as well).....	4

Total Credits: 52**Additional Core Curriculum Requirements**

Required professional pharmacy program pre-requisites are shown in parentheses () and/or denoted by asterisk (*).

Humanities

ENG 111	Introduction to Literature: Acad Writing.....	3
ENG 112	Humanities Seminar.....	3
PHI or RS	PHI 201 or RS 201.....	3

Total Credits: 9

Five courses selected from the following areas with choices made from at least three of the five areas.

LIT	Literature Elective.....	3
Fine Arts	Fine Arts Elective.....	3
PHI	Philosophy Elective.....	3
RS	Religious Studies Elective.....	3
Foreign Language	Foreign Language Elective.....	3

Total Credits: 15**Social Sciences**

Four courses are required, one from each of the following areas:

SOC/PSY	SOC 101 or PSY 101 (either course accepted as a prerequisite).....	3
HIS	HIS 103, HIS 111, HIS 203*, or HIS 204.....	3
ECO/PSC	ECO 201 or ECO 202 (either course accepted as a pre-requisite); or PSC 201.....	3

Total Credits: 9**Computer Science**

CSC	Computer Science Elective.....	3
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Total Credits: 3**Electives**

Electives	Free Electives.....	9
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Total Credits: 9

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Requirement	Credits
Major Requirements (Specific Area of Concentration)	26
Major Requirements (Other Academic Areas)	52
Core Requirements and Free Electives	39-48
Total	120

MINORS

Minors (Structured)

Structured minors are sets of courses designed to give the student marketable skills which could enhance a competency gained in any major. To take a structured minor which will be recorded on the transcript, the student must do the following:

1. Students should complete a statement of intent. Forms are available in the registrar's office.
2. Students must maintain a G.P.A. of 2.0 in the required courses.
3. Students should complete a minimum of 12 credits as indicated in the chosen area of study.
4. Students should take at least nine of the needed credits at D'Youville.
5. Students may not minor in an area within their major discipline. However, in some instances courses taken for a minor may also be used to satisfy the core.

ACCOUNTING

Accounting Minor (12 credit hours)

The accounting minor is a useful complement to a major in management or general business. Like the other structured minors, it offers greater employment potential. It is particularly useful to someone working in or operating a small business.

Required Courses:

ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
ACC 311	Intermediate Accounting I.....	3
ACC 3XX	One Elective from ACC 312 or ACC 321.....	3

Total Credits: 12

ANALYTICS

Analytics Minor (23 Credit Hours)

The analytics minor is a useful complement to majors in health or natural sciences. Like other structured minors, it offers greater employment potential.

Required Courses:

MAT 123	Introduction to Applied Statistics.....	4
MAT 124	Intermediate Applied Statistics.....	4
MAT 220	Applied Regression Analysis.....	3
MAT 222	Statistical Computing.....	3
MAT 224	Biostatistics.....	3
MAT 228	Applied Statistical Inquiry.....	3
CSC XXX	One Elective – CSC 151 is recommended.....	3

Total Credits: 23

ANATOMY

Anatomy Minor (Minimum of 21 Credit Hours)

The anatomy minor is designed for those who want an in-depth knowledge of the human body. A more thorough knowledge of anatomy will give students that plan a career in the health sciences, research or education a solid background in the anatomical sciences.

Select one of the two introductory sequences:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
		Total Credits: 8

OR

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
		Total Credits: 8

Required courses:

BIO 317	Comparative Anatomy.....	4
BIO 317L	Comparative Anatomy Lab.....	0
BIO 339	Human Gross Anatomy.....	6
BIO 339L	Gross Anat Lab.....	0
BIO 3XX	One Elective from BIO 304 w/Lab or BIO 389*.....	3-4
BIO 4XX	One elective from BIO 499, BIO 407, or BIO 408.....	1-2
		Total Credits: 14-16

*Course BIO 389 can only be taken with permission of the chair.

BIOINFORMATICS

Bioinformatics Minor (Minimum of 21 Credit Hours)

The bioinformatics minor provides students who have an interest in computation and biology the opportunity to explore this rapidly developing field while simultaneously exposing these students to additional coursework in math and computing.

Due to the prerequisite coursework required for these courses, it is expected that most students will simultaneously seek a bachelor of science degree in biology, mathematics, or chemistry.

Required Courses:

CSC 151	Introduction to Programming I.....	3
CSC 152	Introduction to Programming II.....	3
MAT 124	Intermediate Applied Statistics.....	4
BIO 375	Math Modeling in Biology.....	3
BIO 350	Fund of Genomics, Proteomics & Bioinformatics.....	3
BIO 351	Computational Biology.....	4
BIO 351L	Computational Biology Lab.....	0
BIO 499	Capstone Experience.....	1-2

Total Credits: 21-22

BIOLOGY

Biology Minor (Minimum of 18 Credit Hours)

Any D'Youville student not seeking a degree in biology could complete this minor. It could be used by those who wish to feature a biology foundation in their resumes.

Two Introductory Courses with Labs:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
		Total Credits: 8

OR

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
		Total Credits: 8

Three courses (a minimum of 10 credits) from:

BIO 107	Human Anatomy & Physiology I.....	3
BIO 107L	Human Anatomy & Physiology Laboratory.....	1
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 208	Microbiology.....	4
BIO 216	Marine Biology.....	3
BIO 218	Invertebrate Zoology.....	4
BIO 218L	Invertebrate Zoology Lab.....	0
BIO 229	Ecology.....	4
BIO 229L	Ecology Lab.....	0
BIO 230	Foundations of Environmental Science.....	4
BIO 230L	Foundations of Environmental Science.....	0
BIO 231	Environmental Geology.....	4
BIO 231L	Environmental Geology Lab.....	0
BIO 242	Evolution.....	3
BIO 3XX	One 300-level elective.....	3
BIO 4XX	One 400-level elective.....	3
		Total Credits: 10

*Minimum of 18 credit hours for a Biology Minor.

BUSINESS

Business Minor (18 Credit Hours)

The minor in general business provides courses in accounting, management and economics. Liberal arts majors and those working with small businesses will find this minor helpful. This minor is available only to students who are not accounting and/or management majors.

Required courses:

ACC 211	Principles of Accounting I.....	3
ACC 212	Principles of Accounting II.....	3
ECO 201	Macroeconomics.....	3
ECO 202	Microeconomics.....	3
ECO 207	Statistics.....	3
MGT/MKT	One Elective from MGT 305 or MKT 304.....	3

Total Credits: 18

CHEMISTRY

Chemistry Minor (23 Credit Hours)

A structured minor in chemistry may be taken by students who are interested in enhancement of their credentials (especially students enrolled in majors already carrying chemistry requirements, e.g., biology).

Required Courses:

CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 219	Organic Chemistry.....	3
CHE 219L	Organic Chemistry Lab.....	1
CHE 220	Organic Chemistry II.....	3
CHE 220L	Organic Chemistry II Lab.....	1
CHE 303	Biochemistry.....	3
CHE 303L	Biochemistry Laboratory.....	1

Total Credits: 20

Select one of the following:

CHE 311	Physical Chemistry I.....	3
CHE 312	Physical Chemistry II.....	3
CHE 351	Medicinal Chemistry.....	3
CHE 412	Spectroscopy.....	3
CHE 421	Survey of Organometallic Chemistry.....	3

Total Credits: 3

Other courses may be taken with departmental approval.

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ENGLISH LITERATURE**English Minor in Literature (15 Credit Hours)**

A minor in English literature offers students in other majors the opportunity to broaden their knowledge of literature and its diverse genres, perspectives, and historical and political contexts. The distribution of coursework enables students to enrich their experience of literature by engaging with diverse works of cultural and aesthetic value, contending with important philosophical questions, reimagining histories of past times and places, and fostering their own critical and creative voices.

Minors are encouraged to participate in the larger culture of the English program – e.g., scholarly lectures, readings, roundtables – and to work for the college's literary magazine, Sketch.

Course requirements for the minor in English literature:

ENG 237	Introduction to Literary Criticism.....	3
ENG 2XX	One 200-level Elective.....	3
ENG XXX	Three 300-400 level Literature Electives.....	9

Total Credits: 15

ENGLISH MINOR IN WRITING AND NEW MEDIA

English Minor in Writing and New Media (15 Credit Hours)

A minor in writing and new media helps students establish the communication skills and visual, information, and media literacies required in professional and academic environments. The writing and new media minor consists of 12-course credits (4 courses) and a required internship (3-12 credits) with a writing or media-based focus. The internship will require a portfolio of work completed for the minor and/or a public performance / presentation.

Course requirements for the minor in writing and new media:

ENG 23X	One Elective from ENG 232 or ENG 231.....	3
ENG 23X	One Elective from ENG 235 or ENG 236.....	3
ENG 30X	One Elective from ENG 303, ENG 304 or ENG 305.....	3
INTERN	Internship with a writing or media-based focus.....	3-12
Total Credits:		12-21

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ENTREPRENEURSHIP**Entrepreneurship Minor (12 Credit Hours)**

The purpose of the minor in entrepreneurship is to enable students to expand their skills and knowledge in small business/ practice management. The structured minor is designed to teach students managerial, financial and marketing concepts related to small business ownership.

The minor is geared toward students who may want to gain expertise in entrepreneurship/ small business management or want to own or manage a practice in the future. NOTE: The entrepreneurship structured minor is available only to non-management majors.

Required Courses:

ACC 211	Principles of Accounting I.....	3
MGT 305	Principles of Management.....	3
MGT 321	Entrepreneurship 1.....	3
MGT 323	Entrepreneurship II.....	3

Total Credits: 12

ENVIRONMENTAL SCIENCES

Environmental Sciences Minor (Minimum of 23 Credit Hours)

This minor prepares students for continued graduate study in environmental science or to enter the workforce in government, industry, education, regulatory and consulting firms. Although this minor is not limited to chemistry and biology majors, they are likely the students that would take advantage of this opportunity. This minor will allow them to build on their interest in the environment without sacrificing the multitude of educational and career opportunities that their fundamental degrees provide.

Required Courses:

Choose from the following two sequences:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
		Total Credits: 8

OR

BIO 303	Biochemistry.....	3
BIO 303L	Biochemistry Laboratory.....	1
		Total Credits: 4

BIO 230	Foundations of Environmental Science.....	4
BIO 230L	Foundations of Environmental Science.....	0
BIO 231	Environmental Geology.....	4
BIO 231L	Environmental Geology Lab.....	0
CHE 331	Analytical Chemistry.....	4
MNS 499	Capstone Experience.....	0-2
		Total Credits: 12-14

One of the following (with a corresponding lab counts as one):

BIO 216	Marine Biology.....	3
BIO 218	Invertebrate Zoology.....	4
BIO 218L	Invertebrate Zoology Lab.....	0
BIO 229	Ecology.....	4
BIO 229L	Ecology Lab.....	0
BIO 242	Evolution.....	3
BIO 314	Botany.....	4
BIO 314L	Botany Lab.....	0
BIO 330	Environmental Microbiology.....	4
BIO 330L	Environmental Microbiology Lab.....	0
BIO 331	Conservation Biology.....	4
BIO 331L	Conservation Biology Lab.....	0
BIO 332	Environmental Health.....	3
*BIO 389	Special Topics.....	1
*BIO 390	Special Topics.....	3
		Total Credits: 3-4

Minimum of 23 credit hours is required.

*Courses can be obtained by permission of the chair.

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EXERCISE AND SPORTS STUDIES**Exercise and Sport Studies Minor (17 Credit Hours)**

The exercise and sports studies minor is designed to assist students in developing necessary knowledge, skills and abilities in the ever-growing field of health and fitness, as well as the burgeoning field of sport and competitive athletics. For students hoping to extend a career in the allied health professions to sports and athletics, this program provides the fundamental dynamics of how sport impacts individuals and society, through both a biomedical approach and a critical examination of the psychological and sociological dimensions of sport and physical activity.

Required Courses:

ESS 101	Introduction to Exercise and Sports Studies.....	3
ESS 201	Prin of First Aid in Athletic Injuries.....	3
ESS 301	Fitness Eval & Exercise Prescription.....	3
ESS 270	Exercise and Sports Studies Practicum.....	3
DTC 328	Nutrition for Fitness & Athletic Performance.....	2
SOC/ESS	One Elective from SOC 312 or ESS 410.....	3

Total Credits: 17

FINE ARTS

Fine Arts Minor (18 Credit Hours)

The fine arts minor is designed to provide an interdisciplinary approach to creative human expression for students interested in artistic performance, process and inquiry. Students have flexibility in designing their course of study within the minor and may choose to acquire either an in-depth understanding of a particular art—visual arts, dance, theater, music—or a broader, critical awareness of the visual and performing arts.

Students wishing to earn a fine arts minor will submit a portfolio documenting their creative and/or critical activities at D'Youville College at the end of their program to a committee of three faculty members for evaluation. This personal archive will generally consist of written programs, lists of repertoire studied and performed, samples of creative and/or critical work, and other evidence of creative achievements, including participation in public performances and/or exhibitions, as part of study toward the minor. The portfolio will be integrated into PHI 423 Philosophy of Art.

Five Courses (a minimum of 15 credits), with two at the 300-400 level:

DAN 101	Introduction to Dance.....	3
DAN 210	Introduction to Ballet.....	3
DAN 300	Elements of Dance Composition.....	3
DAN 305	Dance Performance and Technique.....	3
FA 105	Introduction to Photography.....	3
FA 205	Drawing.....	3
FA 210	Design.....	3
FA 218	History of Western Art.....	3
FA 305	Painting.....	3
FA 314	Art of the Film.....	3
FA 320	History of Visual Arts in America.....	3
FA 327	Modern Art.....	3
FA 328	Art & the Everyday.....	3
FA 330	Frank Lloyd Wright & Amer Architecture.....	3
MUS 100	Music Appreciation.....	3
MUS 200	Appreciation of Music.....	3
MUS 209	Intro to the American Musical Theater.....	3
THE 104	Theater Production.....	3
THE 202	Introduction to Acting.....	3
THE 444	Theatre As Outreach.....	3
ENG 213	Studies in Drama.....	3
ENG 302	Shakespeare.....	3

Total Credits: 15

All FA minors are required to take:

PHI 423	Philosophy of Art.....	3
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Total Credits: 3

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HEALTH SERVICES MANAGEMENT**Health Services Management Minor (15 Credit Hours)**

This minor provides an opportunity for the development of specialized knowledge in the area of health services management (HSM). Students take courses in the foundational areas of healthcare systems including management, insurance/reimbursement, and law/policy. They then select an area of interest: 1) population health which provides more emphasis on the public health aspects of HSM, 2) healthcare information management which provides an emphasis on the role of technology in HSM, or 3) communication in healthcare which provides more emphasis on the role of marketing in HSM.

Students who may benefit from specialized knowledge in HSM include but are not limited to: public health majors interested in management of health-related organizations such as health departments, nursing majors interested in administrative career tracks, sociology majors interested in graduate work in social and preventive medicine, and business and/or management students interested in health services management.

Required Courses:

courses-health-services-management-bs (dyouville-catalog)

HSM 210	Introduction to Healthcare Systems.....	3
HSM 325	Management in Healthcare.....	3
HSM 408	Health Insurance.....	3
HSM 410	Health Care Policy and Law.....	3
HSM	One Elective from HSM 306, HSM 315 or HSM 406.....	3

Total Credits: 15

HISTORY

History Minor (15 Credit Hours)

This minor requires any two courses at the 100 or 200 level including the required course for the core (6 credit hours). An additional three courses at the 300-400 level (9 credit hours) is also required.

HIS XXX	Two Electives from 100-200 level courses.....	6
HIS XXX	Three Electives from 300-400 level courses.....	9
	Total Credits:	15

INFORMATION TECHNOLOGY

Information Technology Minor (16 Credit Hours)

A minor in information technology would serve students majoring in other fields, like business or health professions, who want to combine their degree with more advanced skills in computer technology.

Required Courses:

IT 101	Introduction to Information Technology.....	1
IT 111	Java Programming.....	3
		Total Credits: 4

Select four from:

IT 112	Java Programming II.....	3
IT 231	Computer Organization & Architecture.....	4
IT 304	Object-Oriented Computing.....	3
IT 323	Database Design and Development.....	3
IT 331	Internet Working & Communication.....	3
*IT 338	Modern Operating Systems.....	3
		Total Credits: 19

*Course can be substituted with any I.T. professional elective.

MANAGEMENT

Management Minor (15 Credit Hours)

The management minor provides a foundation in management skills—a “plus” for career advancement. Management skills are extremely useful in any interpersonal job or in a job with advancement potential based on management ability. Many jobs, such as administrative assistant and social worker, require skills in management. Not only does this minor aid in career advancement, but it also provides a broader background for admission to graduate programs in different management areas.

Required Courses:

MGT 305	Principles of Management.....	3
MKT 304	Principles of Marketing.....	3
	Three Electives from MGT, MKT or HRM courses.....	9
	Total Credits:	15

MATHEMATICS

Mathematics Minor (18 Credit Hours)

This minor is available to students who wish to feature a mathematical foundation on their resumes.

Required Courses:

MAT 125	Calculus I.....	4
MAT 126	Calculus II.....	4
MAT 202	Calculus III.....	4
MAT XXX	Two Mathematics Electives at 300/400 level.....	6
		Total Credits: 18

MEDICAL SOCIOLOGY

Medical Sociology Minor (Minimum of 15 Credit Hours)

This minor is open to any student who is not already majoring in Sociology. It is especially tailored to students pursuing careers in health care who are interested in learning about how to better understand the broad patient population which they will experience, while improving the health of others by better appreciating how health and illness are experienced in society. Specifically, students will learn about how things like gender, race, class, ability, sexual orientation, and educational attainment – among other factors – result in differential access to and quality of health care.

SOC	One Elective.....	3
SOC 309	Soc of Disability & Rehabilitation.....	3
SOC 313	Health Disparities.....	3
SOC 322	Health Illness & Society.....	3
SOC 400	Social Epidemiology.....	3
Total Credits:		15

NATURAL SCIENCES

Natural Sciences Minor (21 Credit Hours)

Although any D'Youville student not seeking a degree in biology or chemistry can achieve this minor, it could easily be used by liberal studies in education (pre-elementary education) students to highlight their interest in the sciences since they already currently take 18 of these credits. The minor requires 21 hours, including at least one physics, one chemistry, one biology and three laboratory courses, chosen from this list. Additional courses may be applied with departmental approval.

Choose 21 Credit Hours From:

BIO 101	Introductory Biology I.....	4
BIO 101L	Intro Bio Lab I.....	0
BIO 102	Introductory Biology II.....	4
BIO 102L	Intro Bio Lab II.....	0
BIO 108	Human Anatomy & Physiology II.....	3
BIO 108L	Human Anatomy & Physiology II Lab.....	1
BIO 117	Drugs and Disease.....	3
BIO 145	The Process of Scientific Discovery.....	3
BIO 210	Modern Topics in Biology.....	3
BIO 215	Environmental Science.....	3
BIO 215L	Environmental Science Laboratory.....	1
CHE 101	General Chemistry I.....	3
CHE 101L	General Chemistry Laboratory.....	1
CHE 102	General Chemistry II.....	3
CHE 102L	General Chemistry Laboratory II.....	1
CHE 142	Molecules.....	4
CHE 145	The Process of Scientific Discovery.....	3
PHY 142	Introduction to Astronomy.....	3
PHY 142L	Introduction to Astronomy Lab.....	1
PHY 145	The Process of Scientific Discovery.....	3
PHY 151	Physics for Poets.....	3
BIO 10X	Choice of BIO 105 w/Lab or BIO 107 w/Lab.....	4
PHY 1XX	Choice of PHY 101 w/Lab or PHY 111 w/Lab.....	4
PHY 1XX	Choice of PHY 102 w/Lab or PHY 112 w/Lab.....	4
BIO 389	Special Topics.....	1
BIO 390	Special Topics.....	3

Total Credits: 21

NUTRITION

Nutrition Minor (12 Credit Hours)

This minor provides an opportunity for the student to develop proficiency in the highly popular field of nutrition. Intended for students of all majors, this minor can be used for personal or professional development. Health professions majors will find this minor particularly beneficial as the health care field continues its focus on an integrated approach to treating the whole person.

Required Courses:

DTC 210	Food and Culture.....	2
DTC 327	Nutrition Throughout the Life Cycle.....	3
DTC 328	Nutrition for Fitness & Athletic Performance.....	2
DTC 425	Diet Therapy.....	2
DTC/NTR	One Elective from DTC 306 or NTR 325.....	3

Total Credits: 12

PHILOSOPHY

Philosophy Minor (15 Credit Hours)

The minor in philosophy requires a total of five courses for 15 credit hours. It is designed to provide an acquaintance with critical analysis and an appreciation for the philosophical foundation of other disciplines.

The courses selected for the minor are regularly available so that there is ample opportunity for students to complete the required number of hours. Advisors should be made aware of a student's interest in declaring a minor.

Required Courses:

PHI 201	Ethics in Theory & Action.....	3
PHI 204	Logic & Practical Reasoning.....	3
PHI 3XX	Two Electives at the 300 level.....	6
PHI 4XX	One Elective at the 400 level.....	3

Total Credits: 15

PRE-LAW

Pre-Law Minor (15 Credit Hours)

This minor provides the pre-law student with a range of courses that introduce legal thinking, acquaints the student with areas where a law background is often used and prepares the student for successful entry into and completion of law school.

Required Courses:

ECO 201	Macroeconomics.....	3
PSC 201	American Government & Economics.....	3
PHI 204	Logic & Practical Reasoning.....	3
MGT/ACC	One Elective from MGT 305 or ACC 211.....	3
LAW/HIS	One Elective from LAW 303, LAW 304 or HIS 330.....	3

Total Credits: 15

Some of the above courses will be designated as writing intensive. The pre-law minor is expected to take four writing intensive courses from the above or in the general curriculum. The minor also includes an LSAT (Legal Scholastic Aptitude Test) preparation course offered through continuing education. Students would have a pre-law advisor with access to information on law schools and the LSAT examination.

PSYCHOLOGY

Psychology Minor (15 Credit Hours)

The psychology minor is designed to enhance a student's academic experience and to provide background for those planning to pursue careers in any field that involves dealing with people.

Required Courses:

PSY 101	General Psychology.....	3
PSY 2XX	Two from PSY 203, 204, 205, 206, 207, or 208.....	6
PSY	Two electives at any level.....	6
		Total Credits: 15

PUBLIC HEALTH

Public Health Minor (18 Credit Hours)

The minor consists of six courses (18 credits). The first five courses are foundational courses for public health majors. For the sixth course students may select one elective from a list of courses approved for the public health major. Public health focuses on the health of populations rather than individuals and in an excellent complement to many clinical degrees.

Required Courses:

HSM 110	Introduction to Public Health.....	3
SOC 400	Social Epidemiology.....	3
PH 301	Health Behavior.....	3
PH 302	Global Health.....	3
HSM 312	Health Edu Program Planning & Evaluation.....	3
*Elective	One Elective from BIO 117, BIO 208, PSY 353, SOC 322, SOC 323, HIS 336, HSM 210, HSM 220, HSM 406 or PSC 250.....	3

Total Credits: 18

* List is not exhaustive.

RELIGIOUS STUDIES

Religious Studies Minor (15 Credit Hours)

The religious studies minor requires a total of 5 courses for 15 credit hours. It is designed to provide foundational knowledge of religious beliefs from various religious perspectives and across academic disciplines.

Required Courses:

RS 102	Belief & Unbelief in the Brave New World.....	3
RS	One Elective from RS 101, RS 202, RS 309 or RS 410....	3
		Total Credits: 6

Select three of the following electives:

RS 209	Major Western Faiths.....	3
RS 211	Catholicism Today.....	3
RS 411	Mysticism.....	3
RS 351	Religion in American History.....	3
RS 315	Spirituality in Human Experience.....	3
RS 201	Religion & Social Responsibility.....	3
RS 214	Challenges of Death.....	3
RS 316	Catholic Social Teaching.....	3
RS 312	Bioethics Seminar.....	3
RS 369	Psychology of Religion and Spirituality.....	3
		Total Credits: 9

SOCIOLOGY

Sociology Minor (15 Credit Hours)

The minor in sociology is designed for students who are interested in gaining a greater understanding of social and cultural organization and patterns of human interaction. It is open to students in any field other than sociology.

Required Course and Additional Courses:

- SOC 10X One Elective from SOC 101 or SOC 102..... 3
 - SOC XXX Four Electives (Only two can be cross-listed w/major) 12
- Total Credits: 15**

SPANISH

Spanish Minor (12 Credit Hours)

The minor in Spanish is designed to give students the opportunity to acquire an intermediate or higher level of proficiency. Students who begin Spanish at D'Youville will be required to take the first two semesters of Spanish. Students exempt from elementary courses will be required to take more advanced courses at the 100- to 300-level.

Required Courses for Student Not Exempt from SPA 101:

SPA 101	Beginner Spanish I.....	3
SPA 102	Beginner Spanish II.....	3
SPA 201	Intermediate Spanish I.....	3
SPA	One additional SPA course.....	3
		Total Credits: 12

Required Courses for Students Exempt from SPA 101:

SPA	SPA 101 or SPA 103.....	3
SPA 201	Intermediate Spanish I.....	3
SPA	Two additional SPA courses.....	6
		Total Credits: 12

Required Courses for Students exempt from SPA 102 or 103 will take:

SPA 201	Intermediate Spanish I.....	3
SPA	Three additional SPA courses.....	9
		Total Credits: 12

Required Courses for Students exempt from SPA 201 and/or SPA 202 will take:

SPA	Any four SPA courses.....	12
		Total Credits: 12

SPANISH FOR HEALTH PROFESSIONS

Spanish for the Health Professions (12 Credit Hours)

Several major fields of study are enhanced by a minor in second language professional studies. Nursing, social work, and business fields have a need for professionals who are able to communicate in Spanish. A minor in Spanish for the Health Professions makes a graduate more employable in many areas of the country where Spanish is spoken by a significant number of persons.

This minor will provide not only linguistic competence but an understanding of sociocultural aspects of these ethnic groups, which is essential to a professional's ability to work with Spanish-speaking persons.

Required courses for students not exempt from SPA 101:

SPA 101	Beginner Spanish I.....	3
SPA 102	Beginner Spanish II.....	3
SPA 153	Spanish for Health Professions I.....	3
SPA 154	Spanish for Health Professions.....	3

Total Credits: 12

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SPA 153	Spanish for Health Professions I.....	3
SPA 154	Spanish for Health Professions.....	3
SPA	One additional SPA course.....	3

Total Credits: 12

Required courses for students exempt from SPA 102, SPA 103, SPA 201 and/or SPA 202:

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SPA 154	Spanish for Health Professions.....	3
SPA	Two additional SPA courses.....	6

Total Credits: 12

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ACC Accounting

ACC 211 Principles of Accounting I (3)
 This is a foundation course dealing with accounting principles and procedures with emphasis on the entire accounting cycle, special journals, control accounts and subsidiary ledgers.

ACC 212 Principles of Accounting II (3)
 This course explores theory and applies accounting principles mastered in ACC 211 and accounting for general partnerships and corporations. It also deals with managerial accounting, including accounting cycles, cost analysis, and budgeting *Prerequisite: ACC-211.*

ACC 311 Intermediate Accounting I (3)
 This is a detailed study of financial statement items and special corporation problems. Problems emphasize analytical approaches to typical accounting situations and approved methods for full disclosure of financial information. *Prerequisite: ACC-212.*

ACC 312 Intermediate Accounting II (3)
 This course explores applications of the current standards of theory and policy to areas of earnings per share, income taxes, liabilities, investments, statement analysis and comparisons. *Prerequisite: ACC-311.*

ACC 321 Tax Accounting (3)
 This course studies the various individual income tax laws with special emphasis on current regulations. Students practice in the preparation of tax returns. *Prerequisite: ACC-212.*

ACC 322 Cost Accounting (3)
 This course explores major cost systems in depth, including job, process and operations costing systems, standard cost systems and flexible budgets, and the income effects of alternative product costing methods. Special topics also covered include cost allocation techniques; spoilage, waste and scrap treatment; and the role of cost accounting in professional CPA and CMA exams. *Prerequisite: ACC-212.*

ACC 389 Special Topics in Accounting (3)
 This is a seminar in a topic related to the field of accounting. A subtitle indicates the specific content of the course. *Prerequisite: ACC-311.*

ACC 390 Special Topics in Accounting Special Topics in Accounting (3)
 This is a seminar in a topic related to the field of accounting. A subtitle indicates the specific content of the course. *Prerequisite: ACC-311.*

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ACC 401 Auditing (3)

This introduction to the theory, practice and ethics of independent auditors includes discussion and application of the statements on auditing standards of the American Institute of Certified Public Accountants. *Prerequisite: ACC-312.*

ACC 403 Accounting Theory & Application (3)

Students study via the case method of specialized areas of accounting. Accounting theory and tax questions are an integral part of this course. Although the course is not designed specifically as review for the CPA exam, instructors utilize selected problems and cases from previous exams for study, thereby benefiting students who wish to sit for the exam. *Prerequisite: ACC-321, ACC-322, LAW-303, LAW-304.*

ACC 404 Advanced Accounting (3)

This course is an advanced approach to accounting principles in the areas of partnership, liquidations, government accounting, nonprofit accounting and consolidations. *Prerequisite: Acc-312.*

ACC 407 Fund Accounting (3)

This is an elective course designed to introduce accounting students to governmental and not-for-profit accounting. It includes discussion and application of principles of local government accounting, typical entries in a fund accounting system and financial statements for a fund accounting system. It also deals with accounting principles for colleges, universities and hospitals. *Prerequisite: ACC-312.*

ACC 417 Personal Computers for Accountants (3)

This course introduces students to computerized business and accounting applications, word processing, databases, spreadsheets and presentation software. Students are given thorough, hands-on familiarization with the personal computer and various business and accounting applications on the computer.

ACC 420 Accounting CPA Problems (3)

This course conducts a theoretical and practical analysis of issues dealing with the Certified Public Accountants license exam, and the problems facing CPAs in the corporate, nonprofit and public sector environments.

ACC 421 Corporate Finance (3)

This course deals with corporate financial statements and financial analysis of business firms, tax considerations, inventory analysis, capital budgeting and investment, and financing decisions. *Prerequisite: ACC-212, ECO-207.*

ACC 444 Accounting Internship (3)

This course provides accounting students with the opportunity to gain practical, hands-on experience in their areas of specialization by working for businesses, nonprofit organizations and government agencies.

ARA Arabic

ARA 101 Introduction to Arabic I (3)

Designed to develop students proficiency and communication in Modern Standard Arabic which is the one language that is written, read and spoken in the Arab world in the four basic skills: listening, speaking, reading and writing. At this beginning level, students will be exposed to authentic reading and listening material.

ARA 102 Introduction to Arabic II (3)

Designed to develop students proficiency and communication in Modern Standard Arabic which is the one language that is written, read and spoken in the Arab world in the four basic skills: listening, speaking, reading and writing. Students will continue to be exposed to authentic reading and listening material. *Prerequisite: ARA-101.*

BIO Biology

BIO 101 Introductory Biology I (4)

The lecture topics included are origins of life, prebiotic chemistry; and surveys of the major plant, invertebrate and vertebrate phyla. The course also includes evolutionary principles governing taxonomic criteria and the physiology of movement of d and water in plants. A three-hour lab accompanies the above lecture. Intended for biology majors and minors. *Corequisite: BIO-101L.*

BIO 101L Intro Bio Lab I (0)

A three-hour lab accompanies the above lecture. Intended for biology majors and minors. *Corequisite: BIO-101.*

BIO 102 Introductory Biology II (4)

The lecture topics include a survey of the cell, its chemical constituents and its organelles, energy metabolism and photosynthesis. Introductory classic and molecular genetics is also covered. A three-hour lab accompanies the above lecture. Intended for biology majors and minors. *Corequisite: BIO-102L.*

BIO 102L Intro Bio Lab II (0)

A three-hour lab accompanies the above lecture. Intended for biology majors and minors. *Corequisite: BIO-102.*

BIO 105 Human Biology (4)

This course surveys the function of the human body systems in health and disease and includes topics of current interest, which may include diet and nutrition, treatments for infertility, infectious diseases and vaccines, and the affect of drugs on the nervous system. This course consists of three hours of lecture and three hours of laboratory per week. The lab exercises are designed to complement the lecture topics, and concurrent registration in both lecture and three-hour laboratory are required. This course is not eligible for elective credit in the major but is a required course in the psychology major. *Corequisite: BIO-105L.*

BIO 105L Human Biology Lab (0)

The lab exercises are designed to complement the lecture topics, and three-hour laboratory are required. *Corequisite: BIO-105.*

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- BIO 107 Human Anatomy & Physiology I** (3)
This is a study of the structural and functional relationships of the human organism, emphasizing cells and tissues, the integument, skeletal system, muscular system, nervous system and sense organs. This course consists of three lectures a week.
Prerequisite: CPC-022. Corequisite: BIO-107L.
- BIO 107L Human Anatomy & Physiology Laboratory** (1)
This course accompanies BIO 107. This course consists of three hours of laboratory a week. *Corequisite: BIO-107.*
- BIO 107R Human Anatomy & Physiology Recitation** (0)
This course accompanies BIO 107L. This course consists of two hours of laboratory a week.
- BIO 108 Human Anatomy & Physiology II** (3)
This continuation of BIO 107 emphasizes the digestive system, respiratory system, blood, cardiovascular system, urinary system, reproductive systems, endocrine system, human genetics and development. This course consists of three lectures a week.
Prerequisites: CPC-022 Prior completion of BIO-107/L. Corequisite: BIO-108L.
- BIO 108L Human Anatomy & Physiology II Lab** (1)
This course accompanies BIO 108. This course consists of three hours of laboratory a week. *Corequisite: BIO-108.*
- BIO 117 Drugs and Disease** (3)
What exactly is a heart attack? Why does aspirin help prevent strokes? Why are anti-depressants associated with suicide? This basic course will answer these questions while providing an overview of common disease states and the drugs used to treat them. Disease states of the major organ systems will be covered as well as the most commonly prescribed drugs in America. *Prerequisite: None; however, basic knowledge in biology is recommended; not eligible for elective credit in the major.*
- BIO 123 Art and Anatomy** (3)
Figure drawing is taught with special attention to underlying anatomy. Nuances of surface anatomy, human proportion, and anatomical terminology are considered in an artistic context. Historical paintings and sculpture are used for identifying the subtleties of the human figure. Foundational drawing techniques are demonstrated using anatomical models, prosected cadavers, live models and special dissections as subjects. This course could serve as a general science or humanities elective for the core.
- BIO 123L Art and Medicine in Florence, Italy Lab** (1)
This is a D'Youville College faculty-led study abroad experience. Our faculty together with the faculty of the University of Florence and their partnering institutions including experts from the Museum La Specola, the Institute for the History of Healthcare, the Academy of Fine Arts, the botanical gardens, the Foundation for Photo/Art in Hospitals, the Italian Army, the Museum Galileo Galilei, the medical library and the anthropological museum. Materials and course information will be collected and submitted to the Division of Math and Natural Sciences whose faculty will use this information to determine course grades. This course can be used as a lab course as part of the core curriculum. This study abroad experience in Florence, Italy has duration of two weeks. The course consists of approximately 20 sessions featuring expert-led laboratory-type experiences at medical libraries, botanical gardens, art museums/galleries/institutions, military medicine facilities, hospitals and scientific laboratories. Emphasis is on healthcare and science using evidentiary artifacts and masterpieces in Florence, Italy dating from before the Renaissance to present times. Much of the time will be with hands-on inspection and instruction with instruments and medical models, or in activities.
- BIO 145 The Process of Scientific Discovery** (3)
This is an introductory science course where students will be introduced to the major elements of science and technology including the basic insights of chemistry, physics, biology and geology in the context of the social and historical development of technology. Special attention will be paid to the impact of the sciences on cultural and human endeavors, and on the role of social change and serendipity in the process of scientific discovery. This course could count as a non-major science core course, an IDS science elective or as a free elective for science majors. There are no prerequisite course requirements. Course may be offered with an emphasis on the field of biology (BIO 145), chemistry (CHE 145) or physics (PHY 145).
- BIO 189 Special Topics** (1)
This course presents an opportunity to study a selected topic in the biological sciences. Topics can originate with faculty or students.
- BIO 208 Microbiology** (4)
This course is an introduction to the morphology, physiology, ecology and replication modes of bacterial and eukaryote microorganisms as well as viruses. Pathogens associated with human disease are used to illustrate these general concepts. Methods used by microbes to resist antimicrobial drugs, transfer antimicrobial resistance and methods used to control the growth of microorganisms are also discussed. Emphasis is given to mechanisms of pathogenesis used by bacteria and viruses. The means used by humans to prevent or rid the body of microbial agents are also discussed. In the laboratory, students gain skills in sterile technique, stain procedures and biochemical tests used to characterize bacteria. Methods used to control microbial growths are also studied. The course consists of three hours of lecture and three hours of laboratory per week. *Prerequisites: (BIO-101/BIO-101L/BIO-102/BIO-102L) or (BIO-107, BIO-107L, BIO-108/BIO-108L) 2 semesters of College Chemistry or take CHE-114. Corequisite: BIO-208L.*

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- BIO 208L Microbiology Lab** (0)
This course accompanies BIO 208. This course consists of three hours of laboratory a week. *Corequisite: BIO-208.*
- BIO 208L Microbiology Lab** (1)
This course is only available for transfer students and accompanies BIO 208. This course consists of three hours of laboratory a week. Prior instructor consent is required to register.
- BIO 208 Microbiology** (3)
This course is only available for transfer students and accompanies BIO 208L. This course is an introduction to the morphology, physiology, ecology and replication modes of bacterial and eukaryote microorganisms as well as viruses. Pathogens associated with human disease are used to illustrate these general concepts. Methods used by microbes to resist antimicrobial drugs, transfer antimicrobial resistance and methods used to control the growth of microorganisms are also discussed. Emphasis is given to mechanisms of pathogenesis used by bacteria and viruses. The means used by humans to prevent or rid the body of microbial agents are also discussed. In the laboratory, students gain skills in sterile technique, stain procedures and biochemical tests used to characterize bacteria. Methods used to control microbial growths are also studied. The course consists of three hours of lecture and three hours of laboratory per week. *Prerequisites: (BIO-101, BIO-101L, BIO-102, BIO-102L) or (BIO-107, BIO-107L, BIO-108, BIO-108L) 2 semesters of college chemistry or take CHE-114.. Corequisite: BIO-208L.*
- BIO 210 Modern Topics in Biology** (3)
This is an introduction to biological topics of general interest and practical value. Topics are drawn from areas such as basic biological principles, functioning of the human body, health problems and environmental issues. Students have a role in choosing topics and are actively involved in class presentations and discussions. This course consists of three lectures per week and is not eligible for elective credit in the major.
- BIO 215 Environmental Science** (3)
This is an introduction to the principles of environmental science and considers how those principles can be applied to our understanding and solution of current environmental problems. The course consists of three lectures per week and is not eligible for elective credit in the major. *Corequisite: BIO-215L.*
- BIO 215L Environmental Science Laboratory** (1)
This is field and laboratory work designed to provide direct experience while investigating the basis for environmental principles. Students are exposed to the monitoring of environmental problems. The course is three laboratory hours per week and is not eligible for elective credit in the major. *Corequisite: BIO-215.*
- BIO 216 Marine Biology** (3)
This is an introduction to the life of the seas. It begins with basic information about the chemical, physical and geological nature of the oceans. All major marine communities are surveyed, including coastal zones and estuaries, coral reefs, the open ocean and the exotic communities of the deep sea. Extra attention is given to special topics of particular importance or interest. The final section concerns human interactions with the marine world and threats that they pose to it. *Prerequisite: BIO-101, BIO-101L, BIO-102, BIO-102L.*
- BIO 217 Animal Handling** (3)
This course covers the fundamentals of domestic animal behavior, nutritional, physiology and welfare in relation to animal handling. Students will study how to assess welfare and how behavior plays an important role in mitigation and diagnosis of disease. This course is designed for majors and non-majors and will satisfy a WIP requirement, however biology majors wishing to use it toward their major electives must also take the accompanying laboratory BIO 217L as a co-requisite. *Prerequisite: (BIO-101 BIO-101L BIO-102 BIO-102L) or (BIO-107 BIO-107L) or (BIO-105 BIO-105L) and achieve a minimum grade of B.*
- BIO 217L Animal Handling Laboratory** (1)
This course covers the fundamentals of domestic animal behavior and welfare. Through hands-on experience with animals in the lab and off-site trips to farms, zoos and shelters to explore how to properly handle live animals. This course is required for Biology Majors taking the lecture course, Animal Handling BIO 217. A core assignment for this course is caring for the animals on their own and their written reflection of that experience. This experience can be used to apply for internships and jobs in the animal sciences. This course is designed for students who are interested in animals, and animal focused careers, such as Veterinarians, Veterinarian technicians, Zookeepers, Animal handlers and Animal research. For non- biology majors, the lab may be taken alone and has no pre-requisite. *Corequisite: BIO-217 - Required for Biology Majors wishing to use this course towards their Biology Electives..*
- BIO 218 Invertebrate Zoology** (4)
This is a survey of the major invertebrate groups with emphasis on their diverse patterns of form and function. Coverage of each group includes its distinguishing characteristics and patterns of adaptations for coping with the needs of life by following examples of selected species. Basic biological principles and special impacts on humans are discussed when appropriate. In the laboratory, live and preserved specimens from marine, freshwater and terrestrial habitats are used to explore aspects of anatomy, physiology and behavior. The course consists of three lectures and three hours of laboratory a week. *Prerequisite: BIO-101 BIO-101L BIO-102 BIO-102L. Corequisite: BIO-218L.*
- BIO 218L Invertebrate Zoology Lab** (0)
Corequisite: BIO-218.

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- BIO 229 Ecology** (4)
This is a broad introduction to the basic concepts of ecology as they pertain to population, evolutionary processes, communities and ecosystems. Several current environmental problems are explored in the light of these concepts. Laboratory includes a mix of lab and field exercises designed to put lecture topics into practice. The course consists of three lectures and three laboratory hours a week. *Prerequisite: BIO-101 BIO-101L BIO-102 BIO-102L. Corequisite: BIO-229L.*
- BIO 229L Ecology Lab** (0)
The course consists of three laboratory hours a week.
- BIO 230 Foundations of Environmental Science** (4)
This course examines the interactions between the physical, chemical, and biological components of the environment and human populations. Topics to be included but not limited to the course are 1)the impact of human activities on air and water quality, 2)the use of natural resources including renewable and non-renewable energy sources, minerals and biological resources,3)conservation and biodiversity, and 4)land use including wildlife, fisheries and forest management, recreational uses and agriculture. This course requires a weekly 3 hour lecture and a 3 hour laboratory. The laboratory portion of the course will examine present practices and problems associated with environmental issues through field trips and laboratory/field experiments. *Prerequisites: BIO-101 BIO-101L (BIO-102 BIO-102L) or (BIO-303 BIO-303L). Corequisite: BIO-230L.*
- BIO 230L Foundations of Environmental Science** (0)
This course examines the interactions between the physical, chemical, and biological components of the environment and human populations. Topics to be included but not limited to the course are 1)the impact of human activities on air and water quality, 2)the use of natural resources including renewable and non-renewable energy sources, minerals and biological resources,3)conservation and biodiversity, and 4)land use including wildlife, fisheries and forest management, recreational uses and agriculture. This course requires a weekly 3 hour lecture and a 3 hour laboratory. The laboratory portion of the course will examine present practices and problems associated with environmental issues through field trips and laboratory/field experiments. *Prerequisites: BIO-101 BIO-101L (BIO-102 BIO-102L) or (BIO-303 BIO-303L). Corequisite: BIO-230.*
- BIO 231 Environmental Geology** (4)
This course and required laboratory is designed to be an introduction to Environmental Geology through a broad survey of topics which are interconnected by society and geologic processes. These topics include Earth systems, geosphere materials, plate tectonics, earthquakes, volcanoes, rivers and flooding, land stability, coastal change, water, soil, mineral and energy resources, climate changes and human environmental impact. Laboratory experiences will be related to the course objectives and will include offsite experiences. *Prerequisite: BIO 101/L and (BIO 102/L OR BIO 303/L). Offered each spring semester as needed. Prerequisites: BIO-101 BIO-101L (BIO-102 BIO-102L) or (BIO-303 BIO-303L). Corequisite: BIO-231L.*
- BIO 231L Environmental Geology Lab** (0)
This course and required laboratory is designed to be an introduction to Environmental Geology through a broad survey of topics which are interconnected by society and geologic processes. These topics include Earth systems, geosphere materials, plate tectonics, earthquakes, volcanoes, rivers and flooding, land stability, coastal change, water, soil, mineral and energy resources, climate changes and human environmental impact. Laboratory experiences will be related to the course objectives and will include offsite experiences. *Prerequisite: BIO 101/L and (BIO 102/L OR BIO 303/L). Offered each spring semester as needed. Prerequisites: BIO-101 BIO-101L (BIO-102 BIO-102L) or (BIO-303 BIO-303L). Corequisite: BIO-231.*
- BIO 240 Gross Anat** (4)
This is a human gross anatomy course involving lectures and laboratory with original cadaver dissection, and the study of some completed dissections. This course is similar to Biology 339, but includes increased emphasis on anatomy of abdominal and pelvic visceral organs and neuroanatomy. The course is intended for students in health professions other than occupational and physical therapy *Corequisite: BIO-240L.*
- BIO 240L Gross Anat Lab** (0)
Corequisite: BIO-240.
- BIO 242 Evolution** (3)
Evolution is the single most unifying theory in the biological sciences. This course traces the beginnings of Darwinian-Wallace evolution by natural selection and places this theory in historical perspective. Current evidences of evolution are given and explained and evolution at the gene level is discussed. The emphasis of the course is on biological and biochemical adaptations to changing environments. Some limited treatment of population genetics is included. *Prerequisite: BIO-101 BIO-101L BIO-102 BIO-102L.*
- BIO 289 Special Topics** (1)
This course presents an opportunity to study a selected topic in the biological sciences. Topics can originate with faculty or students.
- BIO 302 Genetics** (4)
This is an examination of the principles of classic and molecular genetics. Topics discussed include Mendel's contribution, linkage, gene mapping, structure and function of DNA and RNA; bacterial and viral genetics, gene function, mutation, regulation of gene activity, recombinant DNA technology and quantitative and population genetics. Laboratory experiments with *Drosophila*, bacteria and fungi demonstrate principles discussed in the lecture. The course consists of three lectures and three hours of laboratory a week. *Prerequisite: BIO-101 BIO-101L BIO-102 BIO-102L. Must have a minimum of a 2.2 GPA.. Corequisite: BIO-302L.*
- BIO 302L Genetics Lab** (0)
The course consists of three laboratory hours a week. *Corequisite: BIO-302.*

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- BIO 303 Biochemistry** (3)
This one-semester course emphasizes structure/function relationships among the components responsible for the biochemical functions of life. Topics include proteins, enzymes, carbohydrates, bioenergetics, metabolism (catabolism and anabolism), lipids, membranes, nucleic acids, biotechnology, biochemical methods, vitamins and nutrition. This course is cross-listed with CHE 303. *Prerequisite: 1 group: (CHE-219 CHE-219L BIO-101 BIO-101L BIO-102 BIO-102L) or (CHE-219 CHE-219L BIO-107 BIO-107L BIO-108 BIO-108L) or be a chemistry major and take (CHE-219 CHE-219L CHE-220 CHE-220L). Corequisite: BIO-303L.*
- BIO 303L Biochemistry Laboratory** (1)
This laboratory supports BIO 303 lecture course. Students required to take BIO 303 are also required to take BIO 303L (except for physician assisting students). *Corequisite: BIO-303.*
- BIO 304 Microscopic Anatomy** (4)
This course examines the organ systems of the body microscopically. The development, histology, histophysiology and histopathology of the tissues and organs of the body will be presented in lecture. The lab incorporates microscopic examination of the organ systems and training in processing of tissue for imaging and instruction in the use of imaging equipment. The course consists of two lectures and four hours of laboratory a week. *Prerequisite: (BIO-101, BIO-101L, BIO-102, BIO-102L) or (BIO-107, BIO-107L, BIO-108, BIO-108L). Corequisite: BIO-304L.*
- BIO 304L Microscopic Anatomy Lab** (0)
This course examines the organ systems of the body microscopically. The development, histology, histophysiology and histopathology of the tissues and organs of the body will be presented in lecture. The lab incorporates microscopic examination of the organ systems and training in processing of tissue for imaging and instruction in the use of imaging equipment. The course consists of two lectures and four hours of laboratory a week. *Prerequisite: (BIO-101, BIO-101L, BIO-102, BIO-102L) or (BIO-107, BIO-107L, BIO-108, BIO-108L). Corequisite: BIO-304.*
- BIO 307 Pathophysiology** (3)
This is a study of disease processes as disturbances of the body's homeostasis. The body's defense mechanisms and their breakdown are emphasized. Various clinical assessment methods are discussed. The course consists of three lectures a week. *Prerequisite: BIO-107, BIO-107L, BIO-108, BIO-108L (CHE-111, CHE-112) or (CHE-101, CHE-101L, CHE-102, CHE-102L) Chiropractic students can take BIO-507L, BIO-508L, BIO-659, BIO-660.*
- BIO 309 Virology** (3)
This course is the study of structure and activity of animal, plant and bacterial viruses. This course is three lectures. *Prerequisite: BIO-303.*
- BIO 310 Immunology** (3)
Individuals are continually exposed to foreign substances (antigens) and respond to them in ways that are both harmful and beneficial. Many areas of biology use the in vitro techniques of immunology. Thus, immunology integrates such diverse fields as genetics, biochemistry, physiology and medicine and is relevant for biology and health science students alike. The purpose of this course is therefore to introduce the student to the chemistry of antigens and antibodies, the biology of the immune response, including both harmful and beneficial aspects in the function of the cells, organs and molecules of the immune system. Immunologic techniques and their applications will also be examined. *Prerequisites: (BIO-101, BIO-101L, BIO-102, BIO-102L) OR BIO-107, (BIO-107L, BIO-108, BIO-108L) AND CHE-101, CHE-102 (BIO-101, BIO-101L, BIO-102, BIO-102L) OR BIO-107, (BIO-107L, BIO-108, BIO-108L) AND CHE-101, CHE-102.*
- BIO 312 Molecular Cell Biology** (4)
This is a detailed analysis of cellular organelles in relation to active transport, endocytosis, cell-to-cell communications, cell development and protein synthesis. Chromosome organization, gene structure, RNA synthesis and regulation of gene expression are also considered. Discussions will emphasize techniques and key experiments that have helped in the development and formulation of contemporary concepts. This course consists of three hours of lectures and one discussion hour a week. *Prerequisites: 1 of (BIO-102, BIO-102L) or (BIO-108, BIO-108L) BIO-303, BIO-303L.*
- BIO 314 Botany** (4)
This course is a survey of biology of plants with emphasis on taxonomy, morphology, physiology and the importance to man. This course is three lectures and three hours of lab. *Prerequisite: BIO-101, BIO-101L, BIO-102, BIO-102L. Corequisite: BIO-314L.*
- BIO 314L Botany Lab** (0)
This course is three hours of lab. *Corequisite: BIO-314.*
- BIO 317 Comparative Anatomy** (4)
This is a study of vertebrates and their chordate origins, including an overview emphasizing their historical relationships. The major systems, such as integument, muscular, nervous, endocrine, circulatory, and skeletal, are presented with examples from the major vertebrate groups. The course consists of three lectures and three hours of laboratory a week. *Prerequisite: (BIO-101, BIO-101L, BIO-102, BIO-102L) or (BIO-107, BIO-107L, BIO-108, BIO-108L). Corequisite: BIO-317L.*
- BIO 317L Comparative Anatomy Lab** (0)
The course consists of three laboratory hours a week. *Corequisite: BIO-317.*
- BIO 320 Developmental Biology** (4)
This is a study of the principles of development and their application to animal and plant embryos, regeneration, metamorphosis, cancer and related processes. The laboratory includes observation and experimentation with living animal and plant material, plant tissue culture, and examination of prepared slides. The course consists of three lectures and three hours of laboratory a week. *Prerequisite: BIO-101, BIO-101L, BIO-102, BIO-102L. Corequisite: BIO-320L.*

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- BIO 320L Dev Biology Lab** (0)
Corequisite: BIO-320.
- BIO 330 Environmental Microbiology** (4)
This course and required laboratory will focus on microbes, their biochemistry and their interactions with higher animals in specific ecologies. Microbes play a primary, and often overlooked, role in every ecosystem on Earth. The unique biochemistries of these microbes are responsible for a wealth of activities critical to human and planetary health, including oxygen generation, carbon and nitrogen bioavailability, bioremediation of pollutants, decomposition of organic matter, nutrient cycling and human sanitation. This course is not intended as the required course in a health sciences major as it eschews medical microbes in favor of environmentally or commercially important microorganisms. This course requires a weekly 3 hour lecture and a 3 hour laboratory. *Prerequisites: Four (4) credits of college level chemistry. (BIO-102 BIO-102L or (BIO-108 BIO-108L). Corequisite: BIO-330L.*
- BIO 330L Environmental Microbiology Lab** (0)
This course and required Laboratory will focus on microbes, their biochemistry and their interactions with higher animals in specific ecologies. Microbes play a primary, and often overlooked, role in every ecosystem on Earth. The unique biochemistries of these microbes are responsible for a wealth of activities critical to human and planetary health, including; oxygen generation, carbon and nitrogen bioavailability, bioremediation of pollutants, decomposition of organic matter, nutrient cycling and human sanitation. This course is not intended as the required course a health sciences major as it eschews medical microbes in favor of environmentally or commercially important microorganisms. This course requires a weekly 3 hour lecture and 3 hour laboratory. *Corequisite: BIO-330.*
- BIO 331 Conservation Biology** (4)
Conservation Biology combines ecology, physiology, molecular biology, genetics, and evolutionary biology in order to conserve biological diversity. It is the aim of conservation biology to understand the human threats to biodiversity and prevent any further loss. Topics covered will include, defining, measuring, and patterns of biodiversity, the negative effect of habitat loss, invasive species, pollution, over population, and over harvesting on biodiversity, strategies used to combat threats and sustain biodiversity and consideration of economic and ethical tradeoffs in the conservation of threatened species. Special attention will be paid to current issues related to biodiversity. This course requires a weekly 3 hour lecture and a 3 hour laboratory. *Prerequisite: BIO-101 BIO-101L and (BIO-102 BIO-102L or BIO-303 BIO-30L or CHE-303 CHE-303L). Corequisite: BIO-331L.*
- BIO 331L Conservation Biology Lab** (0)
Lab for BIO-331 *Corequisite: BIO-331.*
- BIO 332 Environmental Health** (3)
Environmental health examines the impact of the environment on human health. This includes 1) the effect of environmental components, such as pollutants, pathogens, and toxins, on human health, 2) energy resource uses and its effect on human health, 3) food safety, 4) environmental hazards found in the work place, and 5) environmental degradation as it relates to human health and wellbeing. This course will also examine the methods of environmental assessment and the role of public policy related to environmental health. *Prerequisites: (CHE-101 CHE-101L CHE-102 CHE-102L) or (CHE-111 CHE-112 CHE-113) BIO-107 BIO-107L BIO-108 BIO-108L.*
- BIO 335 Pharmacology I** (3)
This series integrates the principles and mechanisms of action and drug effect with the pharmacotherapy of common disease and syndromes. *Prerequisite: BIO-101 BIO-101L BIO-102 BIO-102L.*
- BIO 336 Pharmacology II** (3)
This course is a continuation of Bio 335 *Prerequisite: BIO-335.*
- BIO 339 Human Gross Anatomy** (6)
This is a lecture and laboratory course in human gross anatomy, which uses cadaver dissection and other materials illustrative of human anatomy. Emphasis will be placed upon the anatomy of skeletal muscles, including their bony attachments, nerve and blood supply and their functions in movements. Additional dissections will involve a survey of abdominal and thoracic organs, anatomy of the head and contents of the cranial cavity. The course consists of two lecture hours and eight lab hours a week. *Prerequisite: (BIO-107 BIO-107L BIO-108 BIO-108L) or BIO-317.. Corequisite: BIO-339L. Physician Assistant students will take BIO-639L..*
- BIO 339L Gross Anat Lab** (0)
Corequisite: BIO-339.
- BIO 350 Fund of Genomics, Proteomics & Bioinformatics** (3)
This course will offer an introduction into the novel disciplines of genomics, proteomics and bioinformatics, providing students with a solid intellectual framework for understanding biological pathways, networks and molecular systems in an integrated, multidisciplinary fashion. The course will follow an interactive, problem-based instructional approach, using several mathematics exercises that utilize statistical and probability calculations to add quantitative rigor to the interpretation of biological data sets. The course will be based on case studies taken from scientific publications and Internet-based bioinformatics tools will be used for data analysis. The content will include all major areas of biology, including DNA and protein sequences, microarrays, and systems biology. *Prerequisites: BIO-303 and MAT-125. any CSC (Computer Science) course.. Corequisite: BIO-350L.*
- BIO 350L Genomics and Proteomics Lab** (0)
Lab for BIO-350 *Corequisite: BIO-350.*

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- BIO 351 Computational Biology** (4)
Description of BIO 351 should be same as the printed catalog: This course and required lab are intended to serve as an introduction to the problems encountered in modern biology research, with a special focus on the usage of modern computer-dependent techniques to explain biological phenomena. Many modern biological studies are hindered by the sheer volume of experimental data produced. These data often cannot be efficiently or accurately interpreted without computer assistance, yet many scientists lack the necessary skill set to do so. This course will instruct students in the challenges of designing, implementing and analyzing in vivo or in vitro generated experimental results using in silico techniques. This will be accomplished through a project-based learning format. This course requires three hours of lecture a week and a weekly three hour laboratory. *Prerequisite: BIO/CHE-303 or permission of the instructor.. Corequisite: BIO-351L.*
- BIO 351L Computational Biology Lab** (0)
Lab to accompany BIO 351 *Corequisite: BIO-351.*
- BIO 369 McAt,dat, Gre Review** (0)
This is a non-credit course designed to guide and assist students in reviewing for entrance examinations for health professional schools and graduate schools. The entrance exams covered include: the Medical College Admission Test, Dental Admission Test, Pharmacy College Admission Test, GRE General Test and GRE Biology Test. The course provides an introduction to the exams, diagnostic testing, assistance in reviewing the appropriate subject areas, and the administration of practice exams.
- BIO 370 MCAAt,GRE,DAT, or Pcat Review** (0)
This is a non-credit course designed to guide and assist students in reviewing for entrance examinations for health professional schools and graduate schools. The entrance exams covered include: the Medical College Admission Test, Dental Admission Test, Pharmacy College Admission Test, GRE General Test and GRE Biology Test. The course provides an introduction to the exams, diagnostic testing, assistance in reviewing the appropriate subject areas, and the administration of practice exams.
- BIO 375 Math Modeling in Biology** (3)
Techniques for expressing biological molecules and concepts as mathematical expressions for analysis and comparison. *Prerequisites: MAT-125 and (BIO-102 or BIO-303) 1 computer science (CSC or IT) course. CSC-151 or IT-111 is recommended..*
- BIO 389 Special Topics** (1)
This course presents an opportunity to study a selected topic in the biological sciences. Topics can originate with faculty or students.
- BIO 389L Special Topics Lab** (1)
- BIO 390 Special Topics** (3)
This course presents an opportunity to study a selected topic in the biological sciences. Topics can originate with faculty or students.
- BIO 407 Research At Dyc** (1)
Library or laboratory research problems are carried out under the direction of staff members on campus.
- BIO 408 Research At DYC** (2)
Library or laboratory research problems are carried out under the direction of staff members on campus.
- BIO 479 Independent Study Independent Study** (1)
Qualified students may investigate selected topics with permission of the instructor.
- BIO 480 Special Topics** (1)
Qualified students may investigate selected topics with permission of the instructor.
- BIO 499 Capstone Experience** (0)
This course is designed to be a capstone experience in the form of a research experience, internship/practical experience, or service learning experience.
- BIO 999 Biology Elective** (3)
Course transfers in as a biology core elective.
- BIO 999L Biology Lab Transfer Elective** (0)
Course transfers in as a biology lab core elective.
- BUS Business**
- BUS 389 Study Abroad** (3)
- CDP Career Discovery Program**
- CDP 101 Perspectives on Professions** (2)
This course is based on the premise that choosing an appropriate major depends on self-knowledge and a knowledge of the changing world of work. It seeks to provide the student with the necessary flexibility, tools and skills to survive in a changing work environment. The course's philosophy is that student-centered courses that provide experience in self-evaluation and discovery of career options, are integral components of the process of choosing a major. Experience and opportunities for interviewing, researching career options and academic planning are provided as part of the program in order to develop the skills necessary for selection of an appropriate career pathway. Participants meet in small groups (10 to 15), individually with their instructor and in large groups to hear professionals from selected career fields.
- CDP 102 Perspectives on Professions II** (1)
The focus is on individual work and academic planning with a CDP instructor in this tutorial. There are three oneday workplace visits or an equivalent amount of career work determined by the student's areas of career interest and based on work during the first semester coursework. Contacts for these job shadowing assignments are arranged by the coordinator of the Career Discovery Program. *Prerequisite: CDP-101.*

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CDP 201 Career Life Planning (1)

A course designed for students who are dismissed from an academic major. The course will provide them with the tools and research skills in self-evaluation as well as the career options that are necessary components of selecting an appropriate academic major. This course will support the student in the discovery of personal work values, personality traits, working and thinking styles and research methods necessary for the discovery of career options. At the completion of this course, the student is expected to choose and be accepted into a new academic major.

CHE Chemistry**CHE 100 Basic Chemistry Principles for CHE 101/ 111/114 (3)**

The course is intended to be a half-semester course that provides additional foundation work for general chemistry courses and assists students struggling with the basics and mathematical concepts of CHE 101, CHE 111, or CHE 114. The course will focus on the core concepts generally taught in the first few chapters of most general chemistry textbooks and the problem solving and math needed for Introductory Chemistry. Topics will include mass, the mole, unit conversions, balancing chemical equations, atomic theory, stoichiometry and solution chemistry. This course only counts as a Free Elective. Prerequisite: None

CHE 101 General Chemistry I (3)

This introduction to fundamental chemical principles includes topics such as atomic structure, bonding and properties of gases, liquids, solids and solutions. The course consists of three lectures and three hours of laboratory a week. Prerequisite: High school chemistry and CPC-022 or 3 years of high school mathematics or MAT-117 or MAT-122. Corequisite: CHE-101L.

CHE 101L General Chemistry Laboratory (1)

Three hours of laboratory. Corequisite: CHE-101.

CHE 102 General Chemistry II (3)

This course is a continuation of Chemistry 101. Topics include chemical equilibria, kinetics and oxidation reduction systems. Prerequisite: CHE-101. Corequisite: CHE-102L.

CHE 102L General Chemistry Laboratory II (1)

Three hours of laboratory. Prerequisite: CHE-101L. Corequisite: CHE-102.

CHE 105 Problem Solving for Chemistry 101 (3)

To be taken in conjunction with CHE-101 as recommended by placement testing. Required for non nursing and exercise sports studies students who have an SAT Math Sub-score below 540 (23 on ACT Math) and High School Chemistry Above C (75 +). Prerequisite: CPC-022. Corequisite: CHE-101.

CHE 111 Chemistry for Health Sciences (3)

This is a survey of general and organic chemistry that emphasizes fundamental principles and the properties and characteristics of important groups of chemicals. This course consists of three lectures per week.

CHE 112 Chemistry for Health Sciences II (2)

This survey of metabolism in the cell includes the instruction of compounds and other components involved in metabolism and regulation of metabolism. The course consists of two lectures per week Prerequisite: CHE-111.

CHE 113L Chemistry for the Health Sciences Lab (1)

The laboratory exercises illustrate principles, techniques and practices of general chemistry, organic chemistry and biochemistry. The lab consists of three hours of laboratory a week Prerequisite: CHE-111. Corequisite: CHE-112.

CHE 114 Applied Chemistry for the Health Science (4)

This is a one-semester introductory course emphasizing those areas in chemistry where biochemistry, the physical sciences and human health intersect. Interactive, student-centered learning is emphasized, as is the process of scientific inquiry. The scientific content is chosen with special emphasis on its applicability to medical issues and includes topics drawn from general, organic and physical chemistry as well as biochemistry, including the basics of atomic structure and chemical reactivity, pH, energy, force, pressure, fluid flow, organic reactions and compounds, biochemical molecules and the cycles of life Corequisite: CHE-114L.

CHE 114L Applied Chemistry for the Hlth Sci Lab (0)

This laboratory accompanies CHE114. Emphasis is on integrative coverage of material contained in its companion course and is conducted in an active learning environment Corequisite: CHE-114.

CHE 115 Problem Solving for Chemistry 111/114 (3)

This three-credit course focuses on the mathematical applications of general chemistry. This is a companion course to be taken in conjunction with CHE 111 or CHE-114 as recommended by placement testing and cannot be taken as a freestanding elective. Required for students who have an SAT Math Sub-score below 540 (23 on ACT Math) and High School Chemistry Above C (75 +). Corequisite: CHE-111 - Exercise Sports Studies Students or (CHE-114 and CHE-114L) - Nursing Students at the same time as CHE-115..

CHE 142 Molecules (4)

This is an introductory course in chemistry, which addresses the key concepts of chemistry by studying the structures and workings of the molecules that people encounter in everyday life. Material will be presented in a conceptual manner, with minimal mathematics, and, to the extent possible, in a manner which connects chemistry to the everyday experiences of 21st century human beings. Topics will include atoms, molecules, intermolecular forces, bonding, molecular structure, chemical reactions, heat and energy, rates and equilibrium, acids and bases, light, electrochemistry, polymers and biochemistry. Lab must be taken concurrently Corequisite: CHE-142L.

CHE 142L Molecules Laboratory (0)

This course is the laboratory to accompany CHE 142 Corequisite: CHE-142.

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- CHE 144 Natural Disasters** (3)
This course is for students of all majors. Students will be introduced to the basics of the causes and effects of a variety of natural disasters from volcanoes and earthquakes to hurricanes and blizzards. Specific disasters will be studied throughout the course and when appropriate, many of them focusing on the Buffalo area including the infamous Blizzard of '77. Students will also have an introduction to human-induced disasters and how humans are influencing the planet we live on. Basic chemistry will be introduced such as the periodic table, simple molecules such as various greenhouse gases and other pollutants and radioactivity. This course will satisfy a core science elective or it can also be taken as a free elective.
- CHE 145 The Process of Scientific Discovery** (3)
This is an introductory science course where students will be introduced to the major elements of science and technology including the basic insights of chemistry, physics, biology and geology in the context of the social and historical development of technology. Special attention will be paid to the impact of the sciences on cultural and human endeavors, and on the role of social change and serendipity in the process of scientific discovery. This course could count as a non-major science core course, an IDS science elective or as a free elective for science majors. There are no prerequisite course requirements. Course may be offered with an emphasis on the field of biology (BIO 145), chemistry (CHE 145) or physics (PHY 145).
- CHE 170 The Wide World of Chemistry** (3)
This course is an introductory chemistry course for non-science majors. The chemistry in this course will take us all over the globe and even beyond. Topics will include a history of the atom, the periodic table, chemistry in the Earth, the greenhouse effect, fuels, simple organic chemistry and radioactivity. This course cannot be used for elective credit in the chemistry major or minor.
- CHE 170L The Wide World of Chemistry Lab** (1)
This course is an introductory chemistry course for non-science majors. The exact experiments may change, dependent on new chemistry simulations being developed, but will include introductory chemistry topics. The experiments will introduce students to topics such as interactions of various compounds with light, the greenhouse effect, radioactivity, molecular shapes and organic molecules. This course cannot be used for elective credit in the chemistry major or minor.
- CHE 209 Principles of Organic Chemistry** (3)
This is a survey of organic chemistry, including functional groups and their chemical behavior. Compounds of importance to biology and biochemistry are stressed. This course cannot be taken in place of either CHE 219 or CHE 220. *Prerequisite: CHE-102. Corequisite: CHE-219L.*
- CHE 209L Principles of Organic Chemistry Lab** (1)
This is a laboratory course to compliment the material discussed in Che 209, which is one-semester survey course of organic chemistry.
- CHE 211 Quantitative Analysis** (3)
This course explores the theory and practice of volumetric, gravimetric and instrumental methods of analysis. *Prerequisite: CHE-101, CHE-101L, CHE-102, CHE-102L and 1 semester of college mathematics except MAT-101. Corequisite: CHE-211L.*
- CHE 219 Organic Chemistry** (3)
This course is a survey of the functional groups germane to organic chemistry. In particular, emphasis is placed on the physical properties, nomenclature, conformation, synthesis and reactions of alkanes, alkenes, alkynes. Additionally, the recognition of isomers from constitutional stereoisomers such as enantiomers and diastereomers is also stressed. *Prerequisite: CHE-101, CHE-101L, CHE-102, CHE-102L. Corequisite: CHE-219L.*
- CHE 219L Organic Chemistry Lab** (1)
This lab emphasizes purification techniques central to organic chemistry such as recrystallization, distillation (simple and fractional), extraction, chromatography (column and thin layer), and chemical modification. Also, several syntheses are chosen to illustrate lecture material such as, but not limited to reactions such as substitution and bond cleavage. It consists of three hours of lab a week. *Corequisite: CHE-209 or CHE-219.*
- CHE 220 Organic Chemistry II** (3)
This course is a continuation of CHE 219. The physical properties, nomenclature, synthesis and reactions of aromatic rings, alcohols, aldehydes and ketones. Amines, carboxylic acids and its derivatives, ethers, epoxides, sulfides, conjugated systems, aromaticity and enols are studied. The theory and application of a variety of spectroscopic (infrared, nuclear magnetic resonance and mass spec) methods are also covered. *Prerequisite: CHE-219. Corequisite: CHE-220L.*
- CHE 220L Organic Chemistry II Lab** (1)
This lab emphasizes the reactions that are covered in lecture such as, but not limited to, ester synthesis, electrophilic substitution of an aromatic ring, Grignard reagents and reduction of carbonyl compounds. This lab also places an importance on mastering spectroscopic methods such as IR and NMR utilizing in-house instrumentation. It consists of three hours of lab a week. *Prerequisite: CHE-219L. Corequisite: CHE-220.*
- CHE 303 Biochemistry** (3)
This one-semester course emphasizes structure/function relationships among the components responsible for the biochemical functions of life. Topics include proteins, enzymes, carbohydrates, bioenergetics, metabolism (catabolism and anabolism), lipids, membranes, nucleic acids, biotechnology, biochemical methods, vitamins and nutrition. *Prerequisite: (CHE-219 CHE-219L BIO-101 BIO-101L BIO-102 BIO-102L) or (CHE-219 CHE-219L BIO-107 BIO-107L BIO-108 BIO-108L) or (CHE-219 CHE-219L CHE-220 CHE-220L). Corequisite: CHE-303L.*
- CHE 303L Biochemistry Laboratory** (1)
This laboratory supports the CHE 303 lecture course. Students required to take CHE 303 are also required to take CHE 303L (except for physician assistant students). *Corequisite: CHE-303.*

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- CHE 311 Physical Chemistry I** (3)
This is the first semester of the introductory course in Physical chemistry. Areas of study include statistical thermodynamics: Maxwell Boltzmann distribution partition function, thermodynamics functions, ideal gases, Einstein solid; spectroscopy: interaction of light with matter, Einstein coefficients, selection rules, atomic and molecular spectra, lasers; kinetics, rates, microscopic reversibility, steady state, collision theory. *Prerequisite: CHE-101 CHE-102 MAT-125.*
- CHE 311L Physical Chemistry I Lab** (1)
This is a laboratory course which will complement the first semester of physical chemistry (CHE 311). Students will perform experiments illustrating the major areas of physical chemistry covered in physical chemistry I. *Prerequisite: CHE-101 CHE-102 MAT-125. Corequisite: CHE-311.*
- CHE 312 Physical Chemistry II** (3)
This is the second semester of the introductory course in physical chemistry. Areas of study include quantum mechanics: history, Bohr atom, Schrodinger Equation, particle in a box, rigid rotor, simple harmonic Oscillator, hydrogen atom, MO theory; classical thermodynamics: Gibbs chemical potential, phase equilibria electrochemistry, irreversible processes. This is the second semester of the introductory course in physical chemistry. Areas of study include chemical kinetics, enzyme kinetics, electrochemistry, quantum mechanics, atomic structure, spectroscopy, molecular modeling and the chemical bond. *Prerequisite: CHE-101, 102 MAT-125. Corequisite: CHE-312L.*
- CHE 312L Physical Chemistry II Lab** (1)
This is a laboratory course which will complement the second semester of physical chemistry (CHE 321). Students will perform experiments illustrating the major areas of physical chemistry covered in physical chemistry II. *Prerequisite: CHE-101 CHE-102 MAT-125. Corequisite: CHE-312.*
- CHE 321 Physical Chemistry for the Life Sciences** (3)
This course will provide a focused exploration on the tenets that drive several core physical, chemical, and biochemical processes. Concepts covered will be explained in a broader context than is typically covered in a full (2) semester physical chemistry course emphasizing the usefulness and application of physical chemistry concepts to several "real world" applications in the life sciences. Topics covered will be thermodynamics, kinetics, and quantum mechanics, especially in relation to biomolecules. *Prerequisite: CHE-101 or CHE-102 and MAT-125.*
- CHE 331 Analytical Chemistry** (4)
This is a first course in analytical chemistry emphasizing the basic concepts and laboratory techniques underlying quantitative analysis including analysis of quantitative measurements, simple and complex solution equilibria, volumetric and gravimetric techniques, electrochemistry, redox and potentiometric titrations, separations, and elementary photometric techniques. *Prerequisite: CHE-102 CHE-102L.*
- CHE 332 Instrumental Analysis** (4)
This course will examine the basic tenets and applications of modern analytical instrumentation and their use in determining a wide variety of pertinent analytical data. Topics such as UV/Vis spectrometric methods, atomic absorption and emission spectrometry, gas chromatography, mass spectrometry, luminescence and fluorescence spectrometry, HPLC, capillary electrophoresis, surface analysis and electrochemistry will be covered. *Prerequisite: CHE-102 CHE-102L.*
- CHE 351 Medicinal Chemistry** (3)
This course will survey the relationships between organic chemistry, biochemistry, and physiology in the design and discovery of drugs. Strategies in optimizing drug-target interactions will be examined in select drug classes (e.g. NSAIDs, adrenergic agonists/antagonists). *Prerequisite: CHE-219 CHE-219L. Corequisite: CHE-303 CHE-303L.*
- CHE 389 Special Topics in Chemistry** (4)
This course presents an opportunity to study a selected topic in chemistry. Topics can originate with faculty or students.
- CHE 389L Special Topics in Chemistry Lab** (0)
- CHE 401 Inorganic Chemistry** (3)
This is an intermediate course in inorganic chemistry suitable for the junior or senior level student. The course contains a detailed review of atomic structure and bonding, as well as a discussion of group and molecular orbital theories. This course also provides a brief synopsis of organometallic chemistry and catalysis. *Prerequisite: CHE-220 CHE-220L.*
- CHE 407 Research At DYC** (1)
This course provides an introduction to research. While it is expected that most participants will be students majoring in chemistry, sufficiently motivated and prepared students from all majors can be admitted. Students will work on experimental projects under the individual supervision of a faculty member.
- CHE 408 Research At DYC** (1)
This course provides an introduction to research. While it is expected that most participants will be students majoring in chemistry, sufficiently motivated and prepared students from all majors can be admitted. Students will work on experimental projects under the individual supervision of a faculty member.
- CHE 412 Spectroscopy** (3)
This is a one-semester course in the fundamentals of spectroscopy. This course will cover ultra-violet spectrometry, mass spectrometry, infrared spectrometry, proton (H) magnetic resonance (NMR) spectrometry, ¹³C NMR spectrometry, correlation spectrometry (¹H-¹J1 COSY AND 1-¹³c COSTY) and spectrometry of other important nuclei (e.g., ¹⁹F and ³¹P) to aid in the elucidation and structural confirmation of a wide variety of organic molecules and/or biologically relevant molecules *Prerequisite: CHE-101 CHE-101L CHE-102 CHE-102L CHE-219 CHE-219L CHE-220 CHE-220L CHE-303 CHE-303L.*

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CHE 421 Survey of Organometallic Chemistry (3)

This is an introductory survey course in organometallic chemistry, which combines organic chemistry with inorganic chemistry. The course will include a general overview of the basics of organometallic chemistry. Topics include properties of ligands, bonding, oxidative addition, reductive eliminations, insertions, hydroformylation, C-H functionalization, olefin metathesis, gold catalysis, current research and industrial processes. *Prerequisites:* CHE-219 CHE-219L CHE-220 CHE-220L.

CHE 450 Chemistry Research (2)

Research is conducted in an area selected in consultation with the staff members.

CHE 451 Chemistry Research (2)

Research is conducted in an area selected in consultation with the staff members.

CHE 499 Capstone Experience (1)

CHE 999L Chemistry Lab Transfer Elective (0)

Course transfers in as a chemistry lab core elective.

CHE 999 Chemistry Transfer Elective (3)

Course transfers in as a chemistry core elective.

CHI Chinese

CHI 101 Chinese (3)

This is a foundation course aimed at enabling students to communicate in modern Mandarin Chinese for everyday purposes. Basic skills of listening, speaking, reading and writing will be developed with a focus on modern Chinese characters and basic sentence patterns. Students will be exposed to authentic language environments and provided with opportunities to practice their language skills. Though designed for students with no previous formal training in Chinese, this course can also be taken by students with some Chinese language backgrounds to further their communication skills.

CHI 102 Chinese Level II (3)

CHI 389 Study Abroad Special Topics (3)

CPC College Prep Chemistry

CPC 022 Coll Prep Chem (0)

This is a course which prepares students who lack adequate chemistry background (either no high school chemistry or demonstrated need based on Learning Center testing and consultation with the instructor) to undertake the chemistry required by their major program. Required for students with an SAT Math Sub-Score below 520 (22 on ACT Math) - and No High School Chemistry OR Most Recent High School Chemistry Grade Below C (or below 75). Also for students who have not taken HS chemistry.

CSC Computer Science

CSC 110 Computers and Computing (3)

This is an introduction to the fundamental ideas of computers and their implementation: office applications (word processor, spread sheet, presentation and database), elementary website design, blogging, Internet use for research (hardware, software, early pioneers of the computing industry, common terminology, etc.) and some elementary programming. Instructors may include other appropriate topics. Both Windows and MAC OS will be utilized. (Not open to those with credit in CSC 151.)

CSC 120 Computers & Electronic Health Records (3)

This is an introduction to the fundamental ideas of computers and their role in society. Students learn of the historical origins of computers, the development of computers since WWII, their uses and impact in society, emerging technologies, and the implementation of computers: operating systems, software applications, the Internet, and an introduction to some elementary programming: e.g., HTML, SQL (Databases and Electronic Health Records), advanced spreadsheet formulas. Electronic medical records (EMRs) are a digital version of the paper charts in the clinician's office. Electronic Health Records (EHRs) focus on the total health of the patient by focusing a broader view of all aspects of a patient's care. This course has a great deal of emphasis on databases including practical hands-on experience using (EMR/EHR) software. *Prerequisite:* MAT-101 or achieve a placement test score indicating mastery of the MAT-101 material..

CSC 149 Robotics (3)

Prerequisite: MAT-101 or achieve a placement test score indicating mastery of the MAT-101 material..

CSC 151 Introduction to Programming I (3)

This is an introduction to computer programming using a modern language: program structure, procedures, functions, loops, if-then-else, arrays and records. *Prerequisite:* MAT-101 or achieve a placement test score indicating mastery of the MAT-101 material..

CSC 152 Introduction to Programming II (3)

Prerequisite: CSC-151.

CSC 389 Special Topics (3)

This course presents an opportunity to study a selected topic in computer science. Topics originate with faculty or students

CSC 999 Computer Science Elective (3)

Course transfers in as a computer science core elective.

CWS College Writing Skills

CWS 001 College Writing Skills I (0)

DAN Dance

DAN 101 Introduction to Dance (3)

The student is acquainted with the principles and historical aspects of the world of classical and theatrical dance and their implications for developmental movement, creative expression and educational activities.

DAN 201 Ballet (3)

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Students are acquainted with two basic methods of classical ballet, Cecchetti and Vaganova. Students learn theories of movement of the body in dance, French terminology, barre, centre floor, adage, allegro and enchainements. This course follows a graded syllabus for participation.

DAN 300 Elements of Dance Composition (3)

Brief lectures on historical figures in dance combined with video presentations of significant choreographic works set the stage for each class topic. Exploring the basic elements of time, space and energy with structured exercises that will challenge the student to explore new directions in movement. Sharing and discussing choreographic studies will provide a stimulating experience

DAN 305 Dance Performance and Technique (3)

This course offers students an opportunity to develop an appreciation for choreography and dance ability through practice. Emphasis will be given to refining traditional movement exercises and choreographic endeavors in ballet, modern and jazz technique *Prerequisite: DAN-300.*

DAN 389 Special Topics in Dance (3)**DTC Dietetics****DTC 101 Orientation to Dietetics (1)**

This seminar course will introduce the student to the educational and professional requirements within the field of dietetics. Students will be introduced to and understand the dietetics program curriculum standards and opportunities for personal and professional development within the college and community. An overview of the evolution of the field as well as current and future trends of dietetics will be provided. The course will explore career opportunities, career planning and professional roles and responsibilities of the registered dietitian. Students will be introduced to and understand the governance of dietetics practice including the Academy of Nutrition and Dietetics' Code of Ethics and the Standards of Professional Performance. This course is one hour per week.

DTC 105 Introduction to Culinary Skills (3)

This introductory course provides hands-on instruction in the dietetics lab (kitchen) on food preparation and culinary techniques. The course is designed for students of all majors who would like to enhance their food preparation skills. Food selection and preparation will focus on healthy food choices. An introduction to basic nutrition will be provided with a concentration on the public health effect of poor nutrition choices. Open to all students.

DTC 205 Food Science (3)

This is a fundamental course in the basic principles of food preparation. Emphasis is on food chemistry, the function of ingredients and food preparation skills. The course consists of two lecture hours and two lab hours. Open to all students.

DTC 210 Food and Culture (2)

This two-credit course will introduce the student to the study of the social, cultural, and psychological factors which influence food selection. Cultural eating patterns and nutrition-related health problems of various ethnic and racial groups will be explored. An introduction to basic food preparation and culinary techniques will be used to further investigate food choices of various cultures. An emphasis will be placed on the strong influence of culture on food attitudes and behaviors which affects the counseling strategy of the health care professional. The effect of globalization on food selection and health will be studied. Assignments address current research regarding food and culture and encourage the student to explore nutrition practices of culturally diverse clients. This course consists of one lecture hour and two lab hours. Open to all majors; required course for dietetics majors.

DTC 306 Principles of Nutrition (3)

The course will introduce the student to nutrition science and public health issues related to nutrition. The fundamentals of carbohydrates, protein, lipids, vitamins, minerals and metabolism will be explored. Emphasis will be placed on diet planning and analysis, energy balance and the role of diet and physical activity in a healthy lifestyle and disease prevention. Highlights of current topics in nutrition, such as eating disorders, vegetarian lifestyles, and fad diets will also be addressed. Open to all students *Prerequisite: BIO-108 CHE-102.*

DTC 319 Nutritional Biochemistry (3)

This advanced course provides an in-depth study and discussion of the biochemistry and physiology of macronutrients and micronutrients. Applied topics, including regulation of metabolism, fluid and electrolyte balance, and energy balance/body composition, are presented and explained in terms of related biochemistry and physiology. This course consists of three lecture hours. *Prerequisite: BIO-303 BIO-108 DTC-306.*

DTC 327 Nutrition Throughout the Life Cycle (3)

This three-credit course will examine nutritional needs and issues throughout the life span with special emphasis on preconception, pregnancy, lactation, infancy, childhood, adolescence and aging. Normal nutrition topics and nutrition-related conditions and interventions will be studied for each stage of the life cycle. Nutrient needs and recommendations will be addressed as well as age-related physiological changes. Specific attention will be given to current public health issues and model public food and nutrition programs. Current evidence-based practice recommendations will be covered with use of position papers by the Academy of Nutrition and Dietetics and American Academy of Pediatrics. This course consists of three lecture hours. *Prerequisite: (DTC-306) or (NTR-325).*

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DTC 328 Nutrition for Fitness & Athletic Performance (2)

This two-credit course will introduce the student to the integrated science of nutrition and exercise physiology. The course will explore macro- and micronutrient needs as related to energy demands, cellular function, and growth, maintenance, and repair. Students will explore how optimal nutrition is essential for optimal performance. The course will focus on scientifically sound, evidence-based practice and examine sources of unsound sport nutrition recommendations. Assignments will allow students to gain a greater understanding of the energy requirements of exercise as well as the barriers to increased physical activity. This course consists of two lecture hours. *Prerequisite: (DTC-306) or (NTR-325).*

DTC 389 Special Topics (0)

DTC 409 Food Service Management I (2)

This course provides an introduction to the structure and function of a food service department. Food service subsystems are discussed from an organizational and leadership perspective. This course will introduce the following operational areas: menu planning; procurement including purchasing; receiving and storage; food production and service. As needed, discussion will include food safety, sanitation and the management of human resources related to these topics. This course consists of two lecture hours. *Prerequisite: MGT-305 DTC-205. Corequisite: DTC-409L.*

DTC 409L Quantity Food Preparation Lab (2)

This course provides the application of the concepts and principles of quantity food preparation and service including planning and coordinating food production, recipe standardization and modification, and the application of food safety principles. Students develop the technical skills required for the preparation and service of meals to large groups, including cooking methods and terms and evaluating food for quality for the various recipe categories, including, but not limited to sauces, vegetables, meats, cheese, eggs and baked goods. Students are introduced to the use and maintenance of institutional food service equipment. This course consists of one lecture and two lab hours. Open to dietetics majors only. *Corequisite: DTC-409.*

DTC 410 Food Service Management II (3)

This course studies food service subsystems from an organizational and leadership perspective. This course will introduce the following operational areas: principles of financial control of food and labor, techniques for analyzing and managing costs, development of a business plan executive summary, and management of human resources including personnel recruitment, selection, training, evaluation and labor relations. This course will introduce information on kitchen layout and design, sanitation, security, safety, infection control and emergency preparedness applicable to food service operations. This course consists of three lecture hours. *Prerequisite: DTC-409 DTC-409L. Corequisite: DTC-410SP.*

DTC 410SP Food Service Management Supervised Practice (1)

This course provides practice in food service management including: food service subsystems (purchasing, receiving and inventory control, production and service), marketing, quality management, financial control, human resources (personnel and labor issues), and facility layout and design. Students develop management skills through projects and/or field experiences, case studies, computer applications, and as required, quantity food preparation experiences. Students will be introduced to the behaviors, traits and skills that characterize effective leaders and learn to apply these traits in various personnel and food service management scenarios. This course consists of three supervised practice hours weekly. Open to dietetics majors only. *Prerequisite: DTC-409 DTC-409L. Corequisite: DTC-410.*

DTC 418 Introduction to Professional Practice (1)

This is the first course in the Coordinated Program (CP). It provides an introduction to dietetic practice, including standards that guide practice and professional performance, nutrition care process, medical terminology, and quality standards governing patient care in hospitals. Introductory didactic knowledge is presented, which prepares the student for development of clinical knowledge and skills in subsequent clinical courses. This course consists of one lecture hour. Open to dietetics majors only. *Prerequisite: DTC-319.*

DTC 420 Introduction to Nutrition Care (3)

This course is an introduction to the professional practice of dietetics. Using the nutrition care process as a framework, students learn how to provide nutrition services to patients, including assessing, writing nutrition diagnoses, developing appropriate interventions, and monitoring response to care. This course consists of three lecture hours. Open to dietetics majors in CP only. *Prerequisite: DTC-418. Corequisite: DTC-420SP.*

DTC 420SP Intro to Nutrition Supervised Practice (1)

This course is an introduction to the professional practice of dietetics. Using the nutrition care process as a framework, students provide nutrition services to patients, including assessing, writing nutrition diagnoses, developing appropriate interventions, and monitoring response to care. This course consists of twelve supervised practice hours per week. Open to dietetics majors in CP only. *Prerequisite: DTC-418. Corequisite: DTC-420.*

DTC 425 Diet Therapy (2)

This course examines nutrition and diet therapy, including nutrition assessment, the physiological and biochemical bases of nutrition care, therapeutic diets, medications and herbal supplements. Topics include nutrition intervention for diabetes, cardiovascular diseases, obesity, eating disorders, GI diseases and promoting healthy eating. The emphasis of this course is the practical application of subject matter in the clinical setting. *Prerequisite: (DTC-306) or (NTR-325).*

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DTC 426 Nutrition Education & Counseling Methods (3)

This course presents the development, use, and evaluation of methods and materials for teaching nutrition to different audiences. Emphasis is given to both group and individual instruction in school, community, worksite, employee, and patient education settings. Communication skills essential for professional practice will include patient counseling, lesson plan development, evaluation and publication of educational materials, public speaking, and the use of assessment tools to document learning. This course consists of three lecture hours. Open to dietetics students only.

ECO Economics**ECO 201 Macroeconomics (3)**

This course explores the price system, public and private sectors, national income accounting, unemployment and inflation, fiscal policy, budget deficits and the public debt, money and banking and the Federal Reserve and monetary policy. This course meets the social sciences requirement in the core.

ECO 202 Microeconomics (3)

This course explores supply and demand and the elasticity of supply and demand. It analyzes the degree and nature of competition in various market structures, the economic benefits derived from and the problems presented by big business conglomerates and multinationals and international trade and finance. The course meets the social sciences requirement in the core.

ECO 207 Statistics (3)

This is a general course to acquaint students with the elements and procedures of statistics. It includes the basic concept of statistical methods and analysis, and functional use of descriptive and inferential statistical tools.

ECO 328 Money and Banking (3)

This course explores the monetary and banking theory. It covers the nature of money, the functions of bank reserves, currency and banking history. The Federal Reserve System and its interrelationships with the commercial banking systems as well as foreign exchange transactions are explored. *Prerequisite: ECO-201 ECO-202.*

ECO 389 Special Topics (3)**ECO 999 Economics Core Elective (3)**

Course transfers in as an economics core elective.

EDU Education**EDU 101 Seminar in Education (3)**

This course provides students in the liberal studies for education program with an introduction to problems, issues and concerns in the field of education. A field experience component is part of this three credit hour seminar course. Students considering a career in teaching meet with education faculty, teachers and other professionals to discuss best practices, issues and concerns in education and plan and implement field experiences. The INTASC Standards are introduced as a framework.

EDU 201 Historical Foundations Education in Us (3)

This course is designed to provide the undergraduate liberal studies for education students with an in-depth study of the historical foundations of education. Emphasis is placed on key historical movements, eras and thinkers from education in the United States.

EDU 335 Classroom Management & Student Motivation (3)

This course is designed to provide teacher candidates with models and practices that will assist them in the development of a wide repertoire of management techniques that can be effectively used in schools. Theories of human development, particularly with respect to the interrelations among social, emotional, psychological and intellectual development, will be explored in conjunction with inquiry regarding the foundations of educational research. Emphasis will be placed upon a teacher's ability to enhance the teaching and learning environment by developing effective instructional activities that engage students and enrich the classroom community.

EDU 375 Technology in Education (3)

This course is designed to provide the undergraduate teacher education student with an in-depth study of emerging technologies and their use in an educational setting.

EDU 450 Assessment & Evaluation in Education (3)

Teacher candidates will learn how to develop and use a variety of evaluation methods to monitor student academic achievement and teaching effectiveness. Special emphasis will be placed on relating evaluations to curriculum and instruction. Students will learn about standardized tests and other diagnostic tools frequently encountered and/or used by classroom teachers. Particular attention will be given to adapting assessments to meet the needs of all students. Students will plan, construct, administer and analyze data for formative and summative evaluation of achievement for a content unit. Contemporary issues related to testing, grading, evaluation and accountability will be addressed.

EDU 633 Data Driven Instruction (3)**ENG English****ENG 101 Reading Writing & Reasoning (3)**

This course is designed for incoming freshmen who demonstrate a need for improving their reading, writing and reasoning skills necessary for college success. Required for students who have an SAT EBRW Sub-score 450 or below or ACT 18 or below.

ENG 111 Introduction to Literature: Acad Writing (3)

This course is an introduction to literature and the fundamentals of academic writing. Students learn the skills essential to college success: critical reading and analytical thinking, interpretation, scholarly discussion and collaboration, effective oral presentation, composition of writing for both readers and listeners.

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- ENG 112 Humanities Seminar (3)**
This course teaches academic writing skills based on a humanities topic, thematically linked to the D'Youville general education core. Topics will vary by instructor and will be approached from literary or historical perspectives, with a common focus on cultural studies. Offered both semesters. Crosslisted with HIS-112 beginning Fall 2019.
- ENG 191 English As a Second Language (3)**
This is a two-semester course designed for students whose native language is one other than English and who have some previous knowledge of English. Instruction is given in order to understand, speak, read and write English. Individual conferences are part of this course. Credit is not applied to academic concentration or related field.
- ENG 192 English As a Second Language (3)**
This course is a continuation of ENG 191. *Prerequisite: ENG-091.*
- ENG 201 English Literature Beginnings to 1798 (3)**
This survey course focuses on dominant literary trends and major authors, such as Chaucer, Spenser, Donne, Jonson, Milton, Bacon and Pope. *Prerequisite: ENG-111.*
- ENG 202 19th and 20th Century English Literature (3)**
This survey course focuses on dominant literary trends and major authors, including the Romantics, the Victorians and modern authors such as Yeats, Eliot, Joyce and Lawrence. *Prerequisite: ENG-111.*
- ENG 203 Short Story (3)**
This course is a systematic presentation of the ways of understanding and appreciating fiction. Students analyze, step-by-step, the meaning and techniques of a rich and varied selection of short stories. *Prerequisite: ENG-111.*
- ENG 205 Literature and the Brain (3)**
The nature of consciousness, the neuroscience of the brain, the (real or imagined) mind/brain divide, the possibilities of artificial or non-human intelligence, the capacity for language and creative expression, and the meaning and limits of personal identity have been the focus of a wide range of literary texts, films, and other cultural productions. Students in this course will investigate these puzzles through literature, film, painting, music, and/or popular culture. In joining a study of the workings of the brain with a study of how those workings manifest in literature and the other arts, we will embark on a journey through the aesthetic, emotional, ethical, and cultural dimensions of some of the most significant questions in neuroscience and cognitive science. *Prerequisite: ENG-111.*
- ENG 210 Science Fiction (3)**
This course is an exploration of science fiction as a form of social critique, with an emphasis on themes such as ecology, time travel, mythology, responsibility of the scientist, social relationships, utopias, the alien encounter, and the human and inhuman. *Prerequisite: ENG-111.*
- ENG 211 American Literature Beginnings to 1865 (3)**
This is a survey course in American literature from its beginnings through the Civil War. Representative authors include Franklin, Irving, Emerson, Thoreau, Hawthorne, Poe, Melville and Whitman. *Prerequisite: ENG-111.*
- ENG 212 American Literature 1865 - Present (3)**
This is a survey course in American literature from the Civil War to the present day. Representative authors include Twain, James, Chopin, Eliot, Pound, Fitzgerald, Hemingway, Faulkner, Hughes, Bellow, Baldwin, Oates and Morrison. *Prerequisite: ENG-111.*
- ENG 213 Studies in Drama (3)**
This course examines the expression of human concerns in dramatic form. It is designed to make play-giving and play-reading enjoyable and enriching experiences. Selected plays are examined with emphasis on 20th century playwrights. *Prerequisite: ENG-111.*
- ENG 215 World Literature I (3)**
This survey course in literary classics offers a variety of genres from non-English speaking cultures, from the ancient Greeks and Romans to continental European literature before 1800. A representative sampling of pre-19th century literature from the Far East will also be included. *Prerequisite: ENG-111.*
- ENG 216 World Literature II (3)**
This is a survey of recent literature, drawn from outside the English-speaking world, which both contributes to and critiques the dominant 20th century Anglo-American tradition. *Prerequisite: ENG-111.*
- ENG 217 Studies in Poetry (3)**
This course explores the nature, variety and values as well as the enriching experience and understanding of poetry. A study of selected poems principally by modern poets. *Prerequisite: ENG-111.*
- ENG 218 Minority Voices in American Literature (3)**
This is a survey of American literature that is written by and about ethnic minorities, including African Americans, Native Americans and others. *Prerequisite: ENG-111.*
- ENG 221 The Novel (3)**
This genre course in the novel focuses on the enduring human themes and concerns expressed in the dominant literary form of this age. *Prerequisite: ENG-111.*

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- ENG 231 Field Work: the Art of Reading and Writing Nature (3)**
This course is designed for students interested in understanding and participating in the exploratory, reflective and/or activist tradition of nature writing at a moment in the 21st century when the very concept of "nature" has been irreversibly changed. Students will gain an historical, ethical, literary and writerly grounding in this nonfiction tradition/genre by examining a wide array of techniques and processes, from the scientific to the spiritual, employed in works of nature writing. Students will apply and practice the processes and techniques of effective nature writing by discovering and tracing their own literary paths into an original landscape and by articulating a personal poetics of emplacement. While we will meet in the virtual world, this class is also conceived as a field course, providing students the opportunity to study and learn outside. In addition to producing a body of individual writings, students will work collaboratively to imagine and design a green space/community garden on D'Youville's campus or on Buffalo's west side. This course is crosslisted with FA-231. *Corequisite: ENG-111.*
- ENG 237 Introduction to Literary Criticism (3)**
This course will provide students with the necessary skills to work consciously and effectively within the discourse of the discipline. Emphasis will be given to the following: further refinement of close critical reading skills; understanding of literary terms; understanding of basic critical and theoretical terms, concepts and methodologies; and understanding of genres. *Prerequisite: ENG-111.*
- ENG 300 Women Writers (3)**
This course brings together the artistic vision and contributions of outstanding women writers. The focus is on how women writers view women and the concerns of their time. Possible authors include Gwendolyn Brooks, Virginia Woolf, Katherine Mansfield, Joyce Carol Oates, Flannery O'Connor, Katherine Anne Porter, Eudora Welty and Sylvia Plath. *Prerequisite: ENG-111.*
- ENG 301 Romantic and Victorian Literature (3)**
This course explores the fiction, prose, and poetry of the Romantic and Victorian period (1785-1900). Readings will vary to highlight the crucial historical events of the nineteenth century, including the rise of the British Empire, the effects of the Industrial Revolution, the emergence of the middle and working classes, and women's changing social roles. *Prerequisite: ENG-111 ENG-112.*
- ENG 302 Shakespeare (3)**
This course explores Shakespeare's dramatic and poetic presentation of human experience in all its ambiguities and contradictions. The course will investigate language, sources, historical context, staging and performance history. *Prerequisite: ENG-111 ENG-112.*
- ENG 308 Medieval Literature (3)**
This course explores the language, themes and context of Old English and Middle English literature. Old English texts, read in modern translation, often include the prose of King Alfred, Beowulf, and shorter poems such as The Wanderer and The Dream of the Rood. Selections from Chaucer's The Canterbury Tales are read in their original Middle English, while texts such as the Book of Margery Kemp, the Chester Play of Noah's Flood and Sir Gawain and the Green Knight are modernized. *Prerequisite: ENG-111 ENG-112.*
- ENG 309 Renaissance Literature (3)**
This course examines the writings of one of the richest periods of English literature. The emergence of humanism, the rediscovery of classical texts and the exploration of new lands inspired eminent writers, such as, Spenser, Sidney, Marlowe, Jonson, Donne, Herbert, Marvell and Milton. The background of the Protestant Reformation, Tudor politics and the Civil Wars informs our close reading of a variety of texts, from love sonnets to the epic, from the demonic to the utopian. *Prerequisite: ENG-111 ENG-112.*
- ENG 310 Eighteenth Century Literature (3)**
Students will study the prose and poetry of the neoclassical period from its rise to prominence in the Restoration Period through the 18th century. *Prerequisites: Prerequisite: ENG-111 ENG-112.*
- ENG 311 Themes in American Literature (3)**
This course is an in-depth reading of several major American writers who explore a common literary theme. *Prerequisite: ENG-111 ENG-112.*
- ENG 312 Topics in British Literature (3)**
ENG 312 explores a particular theme, topic, or genre in the literature of British writers. Contact instructor for details. *Prerequisite: ENG-111.*
- ENG 313 Contemporary Writers (3)**
This course is a study of post-1950 literary works that include popular fiction writers, poets and playwrights that reflect contemporary thought and life. *Prerequisite: ENG-111 ENG-112.*
- ENG 316 British Modernism (3)**
This course will examine the work of British Modernist writers from approximately 1908-1939. In addition to close critical analysis of the literary texts, the course will explore the cultural contexts of the movement including its precursors and its influence on British culture. *Prerequisite: ENG-111 ENG-112.*
- ENG 317 Myth and Literature (3)**
This course examines connections between myth and literature across genres and historical periods. *Prerequisite: Eng-112.*
- ENG 318 Modern Continental Literature (3)**
This course is designed for students who are interested in European literature, but who want to elect a course given in English. Based on themes or works of universal interest, it gives students an opportunity to broaden their cultural horizons. *Prerequisite: ENG-111 ENG-112.*

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- ENG 322 Studies in the Novel** (3)
This course is an in-depth examination of selected novels within their historical and theoretical contexts, and focuses on dominant thematic or formal concerns. *Prerequisite: ENG-111 ENG-112.*
- ENG 329 Major Author** (3)
This course covers the career and works of a single significant author. *Prerequisite: ENG-111.*
- ENG 332 Creat Writing II** (3)
Students are given advanced work in generic types of creative writing and develop a manuscript in one or more genres. The course may be taken as humanities fine arts core option. *Prerequisite: ENG-111.*
- ENG 342 Magical Realism** (3)
This course will trace the development of the Latin American fiction style known as magical realism from the early 1920s to contemporary novels. Writers may include Carpentier, Arlt, Lispector, Bombal, Borges, Garcia-Marquez and Allende. *Prerequisite: ENG-111.*
- ENG 346 African American Literature** (3)
This course is a survey of African American literature from the earliest colonial settlements to the present. The course will cover oral story telling traditions, vestiges of African culture in slave folktales, the relevance of music in African-American literary art, the affects of emancipation and the struggle for civil rights on African American literature, and look at how that literature both represents and affects pertinent issues, such as power, race and gender within the African-American literary community. *Prerequisite: ENG-111 ENG-112.*
- ENG 347 Spirituality in American Literature** (3)
This course will be a survey of authors exploring personal spirituality as national identity and vice versa. This is not a course about conventional religious history, nor will we study religious writers of any religious denomination per se. The readings will be primarily a survey of Transcendentalist writers and their spiritual/intellectual descendants with focus on how American writers have sought to integrate individualism with spirituality. *Prerequisite: ENG-111 ENG-112.*
- ENG 389 Special Topics Study Abroad** (3)
Prerequisite: ENG-111.
- ENG 390 Special Topics Study Abroad** (3)
Prerequisite: ENG-111.
- ENG 395 Special Topics Study Abroad** (3)
Prerequisite: ENG-111.
- ENG 406 Critical Theory** (3)
Students practice the application of the principles of literary criticism and of the norms of aesthetic values in literature. *Prerequisite: 2 semesters of literature..*
- ENG 409 Variable Topics in Literature** (3)
This is a variable topic seminar that deals with selected themes or authors as announced when the course is offered. *Prerequisite: ENG 111-ENG-112.*
- ENG 410 Variable Topics in Literature** (3)
This is a variable topic seminar that deals with selected themes or authors as announced when the course is offered. *Prerequisite: ENG-111 ENG-112.*
- ENG 432 Creat Writing III** (3)
Students are given in-depth work in types of creative writing and develop a manuscript in a chosen genre. *Prerequisite: ENG-111.*
- ENG 444 Internship** (3)
The English internship is a variable credit (3-12 hours) required course that encourages juniors/seniors to investigate a career through a placement in a professional setting or in development of future projects (graduate study). This allows students to work under guidance of an immediate supervisor and/or a college faculty sponsor. *Prerequisite: ENG-111.*
- ENG 450 Senior Project Portfolio** (3)
This course offers students the opportunity to produce a professional writing portfolio. The portfolio will reflect all the major and/or relevant areas of writing expertise. *Prerequisite: ENG-111.*
- ENG 479 Independent Study** (3)
Qualified students may investigate selected topics with the permission of an instructor. The titlerefects the course content.
- ENG 999 English Transfer Elective** (3)
Course transfers in as a English core elective.

ESS Exercise and Sports Studies

- ESS 101 Introduction to Exercise and Sports Studies** (3)
This course introduces students to the many sub-disciplines of exercise and sports science. An interdisciplinary approach will be used to explore the various biological and psychosocial dimensions of physical activity, sport and health. Students will study a range of topics including links between physical activity and disease risk, aswell as the influence of exercise and conditioning on athletic performance, disease prevention, and physical fitness.
- ESS 201 Prin of First Aid in Athletic Injuries** (3)
This course is designed to familiarize students with the basic knowledge regarding the immediate and temporary care of athletic- and sports-related injury and illness. Safety concerns regarding exercise facilities and equipment, risk management and development of an emergency action plan will also be emphasized, as well as, recognition and care for both major and minor injuries and illnesses. The present course will also stress issues pertaining to professional certification,medical liability and other legal issues regarding the health, fitness and competitive sports industries. *Prerequisite: ESS-101.*

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ESS 206 Coaching Theory & Methodology (3)

This course is designed to analyze the fundamental theories and practices of coaching sports and/or athletics, and to familiarize students with the inherent differences of coaching theory at various levels of competitive and recreational athletics. It includes a study of the psychological and sociological aspects of coaching, the use and implementation of coaching strategies, the organization of practices and games, communication with athletes, fans, schools, parents and the media, as well as the ethics of coaching.

ESS 220 Human Biomechanics (3)

This course is designed to apply principles of human anatomy that will develop into an understanding of human movement as it corresponds to athletic performance and injury prevention. Forces that act on various joints at rest and during physical activity will be discussed, with principles underlying human movement, muscle physiology and muscular contraction being emphasized. *Prerequisite: ESS-101.*

ESS 232 Sport & Exercise Psychology (3)

This course is designed to explore the relationship between sport, fitness, and various inherent behaviors unique to the sport and fitness industries. The application of psychological theory, research, and practice to sport and fitness settings can contribute immensely to an individual's athletic performance and level of participation. This course seeks to provide a solid scientific foundation to further study the practice of sport and exercise psychology. Furthermore, possessing an understanding of the psychological/mental factors that affect athletic performance in sport, physical activity and exercise is an important skill to possess for the individual practitioners in the exercise and sports studies field. *Prerequisite: ESS-101.*

ESS 270 Exercise and Sports Studies Practicum (3)

This course gives students the opportunity to gain practical experience in the health and fitness industry and to explore the career options available in the field of exercise and sports studies. Students will research the various career pathways open in the exercise and sports field through both secondary sources and documented first-hand observation within various educational settings, community-based athletic programs, fitness centers, sports medicine clinics, athletic teams or corporate settings. *Prerequisite: ESS-101.*

ESS 301 Fitness Eval & Exercise Prescription (3)

This course is designed to familiarize students with the theoretical background and practical applications needed to competently assess levels of physical fitness, and develop exercise programs. Course content is highly focused toward the knowledge and skills required for ACSM Health Fitness Instructor (HFI) and NSCA Certified Strength and Conditioning Specialist (CSCS) certification exams. *Prerequisite: ESS-201.*

ESS 306 Exercise Physiology (3)

This course serves to develop in students an intimate understanding of systemic and metabolic physiology within the physically active individual. Students will gain a thorough understanding of various body systems and the acute responses and chronic adaptations that occur as a result of exercise stress. Overall, students will develop a basic knowledge and understanding of the functional limitations of the human organism during exercise as it relates to the many sub-disciplines of exercise physiology, including respiratory physiology, skeletal muscle physiology, cardiovascular physiology, neuromuscular physiology and exercise endocrinology. *Prerequisite: ESS-101.*

ESS 307 Sports & Fitness Management (3)

Sports and fitness management serves as an examination of the principles, topics and theory pertaining to the administration and management of sports and fitness organizations. This will include, but not be limited to, the objectives, structures, philosophy, history and legal aspects of sports and fitness organizations. Current issues and trends pertaining to management of sports organizations and/or fitness facilities are analyzed. *Prerequisite: ESS-101.*

ESS 351 International Business of Sport (3)

This course is designed to explore the relationship between sport, the health and fitness industry, and management across the globe. Basic concepts and theories of the legal, political, economic, and cultural aspects of international business will be reviewed. A review of management exercises, cultural differences, marketing techniques and related applications and techniques as they relate to the international sports industry will be conducted. Topics such as cross-cultural communication and negotiations, and leading a diverse global workforce in international sport and business will also be investigated. *Prerequisite: ESS-101.*

ESS 361 Economics of Sports & Fitness (3)

This course is designed to provide students with an analysis of economic principles, as they pertain to the sports and fitness industries. It will cover all aspects of the economics of sport, fitness and recreation, as well as give prominence to the staggering rise of the commercial sports sector. A sound understanding of the economics of the sports and fitness industries, the sporting goods industry, the economics of sports sponsorship, the economics of major sports events, the economics of professional team sports, and the economic relationship between sport and broadcasting, will provide students with insight into the business and managerial aspects of the sports and fitness industries.

ESS 389 Special Topics (3)

This course will highlight current and emerging trends relative to the exercise and sports studies field. At the time of offering, a subtitle will indicate the specific content of the course.

ESS 390 Special Topics (3)

This course will highlight current and emerging trends relative to the exercise and sports studies field. At the time of offering, a subtitle will indicate the specific content of the course.

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ESS 410 Strength & Conditioning Seminar (3)

This course will address current and emerging topics within the Exercise & Sports Studies academic discipline. Course content will evolve with the ever-changing dimensions of physical activity, health and athletics. Topics included in this course will change in order to best address current and pertinent issues in ESS

ESS 470 Exercise and Sports Studies: Internship (3)

This course provides students with the opportunity to gain hands-on experience within an exercise and sports studies facility. By agreement of the instructor, student and community internship site supervisor, the student will volunteer for a total of 200 hours at a designated internship site. *Prerequisite: ESS-101.*

ESS 490 Exercise and Sports Studies Seminar (0)

This course provides the student with extensive faculty and peer guidance and feedback throughout a research or community-based internship experience. *Prerequisite: ESS-101.*

FA Fine Arts

FA 105 Introduction to Photography (3)

Intended for the beginner, this course teaches principles of design in composition, printing and display. Topics include camera handling, lighting, film and film development. Ownership of a camera is required.

FA 123 Art and Anatomy (3)

FA 205 Drawing (3)

This basic course emphasizes the elements and principles of design and composition as applied to a variety of drawing techniques. It is a studio course that uses a variety of media including still life, nature and the human figure.

FA 210 Design (3)

This introduction to the study and application of design in the visual arts: focuses on problem solving and using principles of two- and three-dimensional design.

FA 218 History of Western Art (3)

This course studies the major trends in the visual arts of Europe from antiquity to the present. Forms, symbols and images of the artistic styles will be illustrated on selected works of each historical period.

FA 231 Field Work: the Art of Reading and Writing Nature (3)

This course is designed for students interested in understanding and participating in the exploratory, reflective and/or activist tradition of nature writing at a moment in the 21st century when the very concept of "nature" has been irreversibly changed. Students will gain an historical, ethical, literary and writerly grounding in this nonfiction tradition/genre by examining a wide array of techniques and processes, from the scientific to the spiritual, employed in works of nature writing. Students will apply and practice the processes and techniques of effective nature writing by discovering and tracing their own literary paths into an original landscape and by articulating a personal poetics of emplacement. While we will meet in the virtual world, this class is also conceived as a field course, providing students the opportunity to study and learn outside. In addition to producing a body of individual writings, students will work collaboratively to imagine and design a green space/community garden on D'Youville's campus or on Buffalo's west side. This course is crosslisted with ENG-231. *Corequisite: ENG-111.*

FA 232 Introduction to Creative Writing (3)

This course provides a foundation for creative writing across a variety of genres, including poetry, fiction, drama, and creative nonfiction writing. Students will become familiar, through readings, writing projects, peer critique, and in-class writing, with the fundamental elements of each genre. Students will develop a practical and critical knowledge of the construction of contemporary creative writing in terms of language, genre, form, metrics, narrative, character, and description, and of representative examples of published writers. This fulfills the humanities core requirement as a fine arts course. *Prerequisite: ENG-111 ENG-112 or Permission of Instructor.*

FA 235 Digital Storytelling (3)

This course will explore the new frontiers of writing and the range of cultural competencies necessary to fully participate in the global digital future. Students will develop digital and information literacies as well as the foundational elements of strong, clear, precise writing while becoming fluent in emerging communication practices. Students will learn to produce texts in multimedia digital environments, producing new media writing projects such as blogs, wikis, websites, social networking sites, audio, video, and other converged and hybrid media. The course will also focus on helping students to develop critical media literacy skills; students will learn to apply rigorous critical analysis of the media that they consume. *Prerequisite: ENG-111 ENG-112.*

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- FA 236 Writing for Social Justice** (3)
 This course explores writing as a powerful tool for community activism and political action. Students will read, discuss, and write a variety of genres explicitly connected to social and political progressivism, including: personal narratives, letters to the editor, op-ed columns, videos, debate arguments, interviews, blogs, Twitter feed, Facebook pages, online petitions, interactive media projects, etc. The course will also explore the role of DIY art, film, and performance, digital activism, and social media as vehicles of participatory social and political action. Assignments will be designed to foster both expressive and critical thinking and writing skills, problem-solving, the ability to research, organize, and synthesize material, and to generate writing that will deeply explore and interrogate social and political systems, particularly those that produce and perpetuate injustices.
Prerequisite: ENG-111 ENG-112.
- FA 302 Screenwriting Playwriting Workshop** (3)
 This course will focus on honing the screen and/or playwriting skills of students to help them develop a greater creative, critical, and aesthetic understanding of these genres. A variety of dramatic forms will be investigated, with an emphasis on the formal elements of plot, character, dialogue, setting, figurative language, etc. Through reading assignments, writing exercises, and critique of student work, students will hone the techniques of storytelling for film and/or theater and become familiar with a wide range of models and formal strategies for constructing and analyzing scripts. This fulfills the humanities core requirement as a fine arts course. *Prerequisite: ENG-111 ENG-231 or ENG-232.*
- FA 303 Poetry Workshop** (3)
 This course will focus on honing the poetry writing skills of students and to help them develop a greater creative, critical, and aesthetic understanding of this genre. A variety of poetic formats and forms will be investigated, with an emphasis on the formal elements of prosody, metaphor, imagery, language, structure, syntax, patterns, etc. Through reading assignments, writing exercises, and critique of student work, students will become familiar with a wide range of models and formal strategies for constructing and analyzing poetry. This fulfills the humanities core requirement as a fine arts course. *Prerequisite: ENG-111 ENG-232 or ENG-231.*
- FA 304 Fiction Workshop** (3)
 This course will focus on honing the fiction writing skills of students and to help them develop a greater creative, critical, and aesthetic understanding of this genre. A variety of short fiction formats and forms will be investigated, with an emphasis on the formal elements of plot, character, dialogue, setting, point of view, tone, imagery, figurative language, etc. Through reading assignments, writing exercises, and critique of student work, students will become familiar with a wide range of models and formal strategies for constructing and analyzing short fiction. This fulfills the humanities core requirement as a fine arts course. *Prerequisite: ENG-111 ENG-231 or ENG-232.*
- FA 305 Painting** (3)
 This course is an introduction to oil painting, with emphasis on understanding color, paint handling and observation. Attention is given to the approach of painters, both past and present, through periodic slide presentations.
- FA 306 Screening Consciousness: Time, Memory, And Mind in the Movies** (3)
 The flickering images playing across the cinema screen are the closest thing to our own dreams that humans have created. As the nature of consciousness becomes both more elusive in some ways and better understood in others, its presence as a topic in popular culture has become more and more dominant. This course will focus on the multiple and complex relationships between consciousness, memory, identity, and our perceptions and theories of time, investigating the ways that we choose to represent these relationships in the cinema. We will study films and television series that investigate questions about the nature and limits of human-and non-human-consciousness. We will pay special attention to the intersection of these questions with theories of time, memory, and identity, from the perspective of physics, psychology, and poetics. Students will apply what they observe through the creation of their own media projects focused on memory, time, and consciousness.
- FA 314 Art of the Film** (3)
 This introduction to the elements of filmmaking includes screenwriting, camera and lighting, performance, music and sound, editing and the role of the director. Feature films are used to study elements.
- FA 320 History of Visual Arts in America** (3)
 This is a survey of painting, sculpture and architecture of the United States from the colonial period to the present with emphasis on the evolution of styles of the 19th and 20th centuries. Offered as needed.
- FA 327 Modern Art** (3)
 The development of major European and American styles in architecture, painting and sculpture in the last two centuries, from neoclassicism to contemporary trends, is studied.
- FA 328 Art & the Everyday** (3)
 This course combines an art-historical overview of contemporary artists using performance, happenings, action-based art, with influential critics, writers and photography with hands-on studio art-making.
- FA 330 Frank Lloyd Wright & Amer Architecture** (3)
 The architecture of Wright in the historical context of modern American architecture is examined. The course explores his precursors and his impact on and debate with future tendencies.

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FA 331 Media and Culture (3)

Technologies from the invention of writing to the inception of social media have influenced politics, journalism, and cultural production. As they explore aesthetic strategies and techniques in various media, students will engage with the material through both scholarship and practice. Selected readings from scholars, artists, and media activists will provide background and analysis of the history, theory, politics, and methods of participatory media. Students will critically analyze the relationships between media, audience, information, and power and consider the relationship between a participatory democracy and alternative media sources. Students will investigate the politics of representation and will learn to identify bias and manipulation and to recognize and analyze visual and textual systems of cultural codes at work in mass media. In their own projects, they will make use of this knowledge to create their own media messages to work most effectively within the visual and cultural codes they are challenging. *Prerequisite: ENG-111 or Permission of instructor.*

FA 348 Visionaries of Film (3)

This course examines the art of an influential creator of film by offering an in-depth of the work of one major director, cinematographer, editor, or screenwriter. While examining the filmmaker's style and technique, we will investigate her or his philosophical approach to the visual representation of human experience. The historical and socio-political context of the films, along with their reception by viewers, are also considered in our study of the film maker's creative vision. This course fulfills the humanities core requirement as a fine arts course.

FA 349 Themes in Film (3)

This course will focus on a particular movement, style, genre, or cultural, political, or aesthetic theme within the medium of film. A careful study of films and filmmakers within a particular movement or theme will emphasize the relationship of cinematic form and content with special attention to the techniques, expressive strategies, and historical, cultural, and socio-political context of the films and their makers.

FA 389 The Anatomy of Art (0)

FA 390 Special Topics (3)

Special Topics

FA 479 Advanced Black & White Methods (3)

Advanced Black & White Methods

FA 489 Special Topics (3)

FA 999 Fine Arts Transfer Elective (3)

Course transfers in as a fine arts core elective.

FOC Focus Seminar

FOC 101 Focus Seminar (0)

Focus Seminar

FRE French

FRE 101 French Level I (3)

This course is for beginners or those with one year or less of high school French, who need to strengthen basic understanding, speaking, reading and writing skills.

FRE 102 French Level II (3)

This course is a continuation of FRE 101. *Prerequisite: FRE-101 or Two Years of Highschool French.*

FRE 201 French Level III (3)

This course further develops basic concepts and provides more intensive drills in basic skills. *Prerequisite: FRE-102 or Three Years of Highschool French.*

FRE 202 French Level IV (3)

This course is a continuation of FRE 201. *Prerequisite: FRE-201 or Four Years of Highschool French.*

FRE 400 French Internship (3)

This course gives students the opportunity to gain more exposure to and practice of the French language and culture in a professional setting that is in keeping with their own educational and vocational goals. Students will apply their skills in the written and oral forms of communication in a research or community internship placement that might include local nonprofit organizations, health clinics, or art galleries. Through agreement among the instructor/internship coordinator, the student, and the internship supervisor, the student will participate in an internship(s) for a minimum of 150 hours for the semester (approximately 10 hours per week).

GLS Global Studies

GLS 101 Global Culture I Gov Tech Social Thought (3)

This course offers analysis of political philosophies and governments in the modern world and promotes cross-cultural understanding: reviews racial, ethnic and sexual issues from a minority-majority perspective; and deals with issues of discrimination and oppression. The course will cover world history leading up to the current diffusion of population and the emergence of modern forms of communication and transportation that appropriate areas of inquiry for students in a professional program.

GLS 102 Global Culture II Lit Phil and the Arts (3)

Multiple perspectives and modes of representation of global issues are examined using a variety of sources in order to equip students with the skills to analyze and evaluate different artistic representations and interpretations. This course explores topics in literature and the arts that are international in scope, whether through specific influences or in response to historical, philosophical, political and aesthetic developments.

GLS 344 Study Abroad (1)

An independent research project is conducted in a foreign country. Students will work individually with a program faculty advisor to devise a suitable course of study. This may involve participation in course work in a foreign institution, subject to approval of the global studies advisory committee.

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GLS 444 Internship (3)

The global studies internship is a variable credit (3-12 hours) required course that encourages juniors/seniors to investigate a career through a placement in a professional setting or in development of future projects (graduate study). This allows students to work under guidance of an immediate supervisor and/or a college faculty sponsor.

GRM German**GRM 101 German Level I (3)**

This course is for beginners or those with one year or less of high school German, who need to strengthen basic understanding, speaking, reading and writing skills. The culture and history of German-speaking peoples is also introduced.

HHS Holistic Health Care**HHS 300 Introduction to Hatha Yoga (3)**

Introduction to Hatha Yoga

HHS 389 Special Topics (3)**HIS History****HIS 103 Comparing World Civilizations (3)**

This course surveys the origins and growth of the Confucian, Islamic and Western worlds, and examines how a concentration of political and economic ideas and technologies allowed temporary Western dominance. This course meets the core requirement in history.

HIS 111 Growth of Western Culture (3)

This course is a survey of the development of Western culture as divided into seven major epochs: Greece, Rome, the Middle Ages, the Renaissance, the Enlightenment, the 19th century and the 20th century. This course meets the core requirement in history.

HIS 112 Humanities Seminar (3)

This course teaches academic writing skills based on a humanities topic, thematically linked to the D'Youville general education core. Topics will vary by instructor and will be approached from literary or historical perspectives, with a common focus on cultural studies. Offered both semesters. Crosslisted with ENG-112

HIS 203 American History to 1865 (3)

This course examines American history from colonial times to 1865, with attention to the diversity of experiences among peoples during this period. This course meets the core requirement in history.

HIS 204 American History Since 1865 (3)

This course examines the political, social, economic, and cultural history of the United States and its diverse peoples from 1865 to the present. This course meets the core requirement in history.

HIS 211 The United States and the World (3)

This course examines the diplomatic, political, and cultural interaction between the US and the modern world.

HIS 309 History of East Asia (3)

This course examines the history of East Asia in the 19th and 20th centuries with a focus on China and Japan.

HIS 313 History of Latin America (3)

A study of the Hispanic American civilization from earliest times to the present including such topics as the age of conquest, the colonial period, the ways of independence and the national period. Focus placed on current problems as well as Latin American relations with the United States.

HIS 320 History of New York State (3)

This course is a study of the historical development of New York from 1609 to the present. Special note is made of the role of Western New York in the state's history.

HIS 323 Founding the American Republic 1763-1800 (3)

This course is a study of events leading to the American Revolution and independence and a consideration of the implementation of the Constitution and the evolution of the two-party system.

HIS 325 Modern World Revolutions (3)

This course comparatively studies the great revolutions of modern times in 18th century England, 18th century America and France, and 20th century Russia and China.

HIS 326 Civil War and Reconstruction (3)

This course is a study of the forces shaping American life through the outbreak of the Civil War through the Reconstruction and the development of the postwar period. Emphasis is placed on the problems of slavery and race relations.

HIS 327 Twentieth Century America (3)

This study of the United States in the 20th century considers such topics as the Progressive Era, Imperialism, World War I, the "Roaring Twenties," the Great depression and World War II. Focus is placed on the problems of urbanization and of African Americans.

HIS 328 Twentieth Century America (3)

This study of the United States in the twentieth century considers such topics as the 1950s, the revolution of the 1960s, the Vietnam War, and the presidency from Truman to Clinton. It focuses on the problems of American involvement in the world, the challenge of the urban crisis and the struggle of African Americans.

HIS 329 Twentieth Century Europe (3)

This course is designed to deepen knowledge of the political developments of the period by a systematic study of the major events affecting 20th century Europe.

HIS 330 History of Constitutional Law (3)

This course will develop an understanding of the legal system of the United States through the study constitutional history and the U.S. court system.

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HIS 336 American Environmental History (3)

This course examines the major themes and issues in American environmental history, focusing on the changing attitudes and behavior towards nature in the transition from rural agricultural to an urban industrial society that profoundly transformed the physical and cultural landscapes.

HIS 341 Canada in Transition (3)

This course provides students with a thematic approach to the historical, cultural, political, social and economic development of America's closest foreign ally and major trading partner. Through the examination of Canadian colonial development, political evolution, cultural formation and economic diversification, students analyze a nation that is similar to the U.S. and yet quite unique. By studying Canadian policy toward native North Americans, students see how and why such a policy took a radically different approach from that followed in the U.S. This approach of comparison and contrast will be utilized throughout the course.

HIS 343 Russia the West and Change (3)

Beginning with Peter the Great, the course examines how Russia has attempted to keep up with Western technological and social development. Particular attention is given to the way communism structured this attempt since the Russian Revolution.

HIS 344 History of Ireland (3)

A broad introduction to Irish history from the Stone Age to the late 20th century economic boom. Included is a two-week extensive historical tour of Ireland.

HIS 350 Africa and Middle East: Selected Topics (3)

This course examines selected topics in the social, cultural, and political histories of modern Africa and the modern Middle East.

HIS 351 Religion in American History (3)

This course will explore the many important issues in American religious history over the past 400 years.

HIS 389 Special Topics - Study Abroad (3)

Special Topics - Study Abroad

HIS 420 Variable Topics in History (3)

This variable topic seminar deals with selected themes or topics that are announced when the course is offered.

HIS 441 Case Study in Urban Sociology (3)

This course combines on-campus lectures about the geography, history, culture and society of a designated urban center with a one-week service learning experience in that city. Campus lectures will take place in the fall semester and the one week of service learning is held between semesters, in January.

HIS 444 Internship (3)

The history internship is a variable credit (3-12 hours) required course that encourage juniors/seniors to investigate a career through a placement in a professional setting or in the development of future projects (graduate study). This allows students to work under the guidance of an immediate supervisor and/or a college faculty sponsor.

HIS 450 Senior Research Project (3)

This course requires students to investigate and write a significant historical paper on a topic of their choice (usually in local history). The research for the paper must include original or archival sources. Prerequisite: Completion of 24 credit hours; Offered in the spring semester. *Prerequisite: Complete 24 credits prior to taking this course.*

HIS 479 Independent Study (1)

Qualified students may investigate selected topics with permission of the instructor.

HIS 480 Independent Study (1)

Qualified students may investigate selected topics with permission of the instructor.

HIS 999 History Core Elective (3)

Course transfers in as a history core elective.

HP Health Professions

HP 301 Introduction to Qigong: Theory, Evidence And Practice (1)

Qigong is a therapeutic exercise practiced in traditional Chinese medicine. It involves adjustment of mind, body and breath. This self-paced, online course is an introduction to this ancient Eastern art. It provides the foundation for maintenance of health and wellness and stress management through the practice of active Qigong exercise and meditation. History, theory, and mind/body practice of Qigong are presented. It is the first course within a 3-course sequence on Qigong practice. While this course may be professionally most useful for those in health care service, it has direct benefit for all who seek to participate in personal maintenance of health through practice of Qigong. Evaluation is by objective online exam. Recommended time to complete the course is 8 weeks. (20 contact hours) Learning hours committed to this course may be submitted for review toward Qigong Leader/Instructor certification.

HP 302 24-Posture Qigong Form Of Qigong (1)

This second course in an online 3-course series on Qigong practice introduces participants to the Wu Yi Jie He 24-Posture Qigong Form. Topics include demonstration, performance feedback and energetic and physical analysis of each posture. Upon completion of this course and its pre-requisite course: Health and Clinical Applications of Qigong, students will receive a Village of Healing and Wellness (VHW) Certification as a 24-Posture Qigong Leader. (20 contact hours)

HP 303 Qigong: Health and Clinical Applications Of Qigong (1)

This third course in an online 3-course series on Qigong practice introduces participants to clinical applications in integrative Qigong exercise. Topics include complementary management of healthy ageing, cancer and other chronic disorders, balance training and fall prevention, and musculoskeletal complaints including shoulder and back complaints. Successful participants will receive a certificate in 'Health and Clinical Applications of Qigong' from the Village of Healing and Wellness? (VHW), St. Catharines, ON. (20 contact hours)

HP 389 Special Topics (1)

Special Topics

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- HP 390 Special Topics** (1)
Special Topics
- HRM Human Resource Management**
- HRM 309 Principles of Human Resources Management** (3)
This course deals with the nature and theory of human resources management. It emphasizes the functional application of the basic principles of human resources management to realistic organizational situations. *Corequisite: MGT-305.*
- HSA Health Services Administration**
- HSA 389 Special Topics** (3)
Special Topics
- HSA 390 Special Topics** (3)
Special Topics
- HSM Health Services Management**
- HSM 101 Introduction to Health Care** (2)
Students are introduced to the use of concepts, theory and research as they relate to professional practice in the health care system. They will explore the development and current patterns of the health care delivery and the forces which mold the health care system and an individual's health behavior. The course may include field trips to selected community and institutional settings.
- HSM 110 Introduction to Public Health** (3)
Public health aims to prevent and treat disease and to promote and protect health through strategies that engage the community. This course will examine the history of public health as well as core areas of public health including assessment, assurance and policy development. Students will learn about health promotion and disease prevention of communicable and non-communicable disease social and behavioral aspects of health, epidemiology, environmental health and health policy.
- HSM 200 Professionalism in Health Care** (1)
Healthcare managers must demonstrate professional behaviors and be able to navigate the professional culture of healthcare. In particular healthcare managers must be able to demonstrate: 1) culturally competent interpersonal interactions, 2) appropriate dress and personal presentation in healthcare settings, and 3) the ability to plan for and obtain ongoing professional development to meet the changing requirements of healthcare settings.
- HSM 203 Medical Terminology** (1)
This course applies medical terminology including word components (root word, prefix and suffix), medical abbreviations, pathologies and diagnostic tests. Students also learn how to conduct a chart review, interpret admission notes, surgical reports, discharge summaries, and understand the components of a SOAP note.
- HSM 210 Introduction to Healthcare Systems** (3)
This course presents a systems approach to the delivery of health services. Students will develop an understanding of the basic structures and operations of health care systems. The course examines resources, processes and outcomes of health systems.
- HSM 220 Community Health** (2)
This course presents an overview of public health agencies, but focuses on methods for creating and maintaining healthy communities. Students will learn how to function in the role of facilitating partnerships between communities, business and government.
- HSM 306 Population Health** (3)
This course explores the social determinants of health, as well as the public health vs. clinical approaches to managing the health of communities. This course introduces students to the community health assessment process, emphasizes the need and utility of a data driven approach to decision making in order to improve population health, and explore the causes and consequences of health disparities. *Corequisite: HSM-210 And An Undergraduate Statistics Course..*
- HSM 308 Research Method for Healthcare Managers** (3)
This course will introduce students to research processes and methodologies. Students will review and critically analyze research designs with a focus on those used in healthcare organizations. The interpretation of the statistical findings will be emphasized to ensure a literate workforce. The instructor will expose the student to research proposal creation. Emphasis is on the professional as a consumer of research. *Corequisite: HSM-210 And An Undergraduate Statistics Course..*
- HSM 310 Quantitative Methods** (3)
This course addresses the use of data analysis systems to evaluate the impact of health services delivery and on the application of quantitative analysis to decision making in the health services field. *Prerequisite: MAT-123.*
- HSM 312 Health Edu Program Planning & Evaluation** (3)
This course focuses on health education at the individual and population levels. Students will learn how to conduct a community diagnosis, mobilize communities for action in promoting healthy behaviors at individual and community levels. Students will learn how to align strategies with Healthy People 2010 and measure improvements.
- HSM 314 Max Health Org Assets of Coord & Comm** (2)
This course introduces students to the concepts of healthcare communications. Topics will include the role of personal and team values in improving communication that enhances organizational behavior, cultural competence, performance, effectiveness and morale. The skilled communicator will be able to interpret the beliefs that guide the institution to instill culturally appropriate cooperative, collaborative and engaged activities by team members at all levels of the organization, and be able to adapt the same communication skills that work within an organization to be effective with an external audience interested in the social responsibility of the organization to the community it serves. *Corequisite: HSM-210.*

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- HSM 315 Communications in HC (3)**
This course presents coordination and communication as closely related strategies through which managers in HSMO and communities link together the various people and units within their systems to other organizations and agencies. Central to communication is an understanding of the interdependencies that exist in both internal structures and external relationships. Students will explore challenges associated with coordination and communication, and examine effective strategies for meeting these challenges. *Corequisite: HSM-210.*
- HSM 316 Human Resources for Healthcare Managers (3)**
This course provides students with an overview of managerial activities related to human resources in healthcare organizations. Specific topics that will be covered include laws governing human resource processes, job descriptions, recruiting, interviewing, hiring, firing, orientation, benefits, appraisal, discipline, and developing clinical and non-clinical personnel. *Prerequisite: HSM-325. Corequisite: HSM-210.*
- HSM 318 Resource Management in Health Care (3)**
The purpose of this course is to introduce the student to the principles of managing health care resources and to the methods used to analyze and evaluate the use of resources in delivering health service. The objective will be to expose students to approaches to cost containment and to the need for partnership with clinical providers to achieve success in providing effective and efficient care. Students will develop and understanding of well-established methods of resource management along with emerging and developing methods such as value-based payment and accountable care organizations.
- HSM 320 Health Services Internship (2)**
Under the supervision of a qualified preceptor and program faculty, students complete approximately 80 hours of fieldwork in the area of community health and health education. This course includes one hour of weekly seminar. *Prerequisite: HSM-210.*
- HSM 325 Management in Healthcare (3)**
This course introduces student to the principles of management applied to healthcare organizations. Topics include problem solving and decision making in the current health service marketplace; the ability to develop the skills, terminology and personal ethics/values to manage in a healthcare setting, as well as comprehending the leadership structure that guides the institutions to successful delivery of care. *Corequisite: HSM-210.*
- HSM 349 Healthcare Finance (3)**
This course provides students with an overview of financial management functions at the departmental level of healthcare organizations including budgeting and cost analysis for department-level operations and capital expenditures. *Prerequisite: MAT-120 ACC-211. Corequisite: HSM-210 and take ECO-201 or ECO-202.*
- HSM 382 Managerial Epidemiology (3)**
This course will introduce students to the basic principles of epidemiology and demonstrate how these principles may be applied to the various functions of health services administrators/managers, such as planning, staffing, organizing, directing and controlling. Through these principles students will learn how measurement of health related outcomes and delivery of health services is a critical component of each of these functions. *Corequisite: HSM-210 HSM-308.*
- HSM 389 Special Topics: Study Abroad (3)**
Special Topics: Study Abroad
- HSM 390 Special Topics (3)**
Special Topics: Study Abroad
- HSM 406 Health Information Management (3)**
This course will cover the policy and legislation influences that have encouraged the rapid paced adoption of health information technology (HIT). The course will describe the function, benefits, and challenges of widely used HIT systems such as electronic health records, telehealth, and mobile health. The role of HIT in cost, quality, and satisfaction improvements, as well as provider value based payment will be defined. *Prerequisite: . Corequisite: HSM-210.*
- HSM 408 Health Insurance (3)**
This course provides students with an overview of diverse financial systems within American healthcare, focusing on reimbursement methods and payment systems and how they affect providers and payers. It also reviews major insurance programs, federal health care legislation, legal/regulatory issues, diagnosis and procedures coding systems, and the impact of coding on reimbursement, compliance, and fraud and abuse.
- HSM 410 Health Care Policy and Law (3)**
This course develops students' knowledge and understanding of the development and impact of policy and law in the US on healthcare organizations. Specific emphasis will be given to principles of law, policy and the U.S. legal system including laws and policies related documentation, privacy, security, release of health information, liability, consent, and malpractice. *Prerequisite: HSM-210.*
- HSM 413 Quality Improvement in Healthcare (3)**
This course introduces students to the principals of clinical quality and performance improvements as applied in the health care setting. Specific topics include the use of evidenced-based, measurable standards, work steps for improvement, and value based payment systems. Students will investigate models used to improve the process of health care delivery, as well as examples of successful clinical, cost and satisfaction performance improvements.

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HSM 414 Project Planning & Management (3)

This course examines the phases of project and management in health care organizations. Students will learn how to use a systems approach to integrate local, state and federal health care mandates and professional standards in setting reasonable goals, determine a time line and budget. They will learn how to lead and facilitate team of support staff, professionals and allied health professionals through the work plan. They will learn to present the project verbally and in writing using a variety of presentation formats. *Prerequisite: HSM-406.*

HSM 415 Healthcare Operations (3)

This course introduces student to the operational functions of healthcare managers across the healthcare and public health continuum. Topics include design and structure of the healthcare continuum, planning for and managing patient flow, measuring productivity, streamlining process flows, tracking outcomes and performance metrics, and improving clinical and non-clinical processes. Operations topics will include incorporating perspectives from clinical operations, business, operations, information management, patient safety and community impact. *Prerequisite: HSM-210 HSM-315 HSM-325 HSM-349 HSM-316 HSM-406.*

HSM 420 Health Services Management Internship (2)

This course provides students with a managerial internship/field work experience at a healthcare setting. Students will apply course work knowledge and skills to a health services management problem through the completion of a major project at a targeted organization that is negotiated between the student, preceptor, and HSA department. *Prerequisite: All major coursework except HSM 472 and 473. Corequisite: HSM-473.*

HSM 472 Health Services Management Capstone (3)

This course serves as a culminating capstone experience in which students are expected to apply knowledge and skills gained from their undergraduate experience as a whole and from the HSM program specifically to solve a current healthcare management problem. This course provides students with the opportunity to demonstrate their ability to think critically, to synthesize information from multiple areas of healthcare practice, to integrate content across the multiple skills and practices areas expected of healthcare managers, to work in a team, and to transition from student to practicing professional. *Prerequisite: All Major Coursework Except HSM 420 and 473.*

HSM 473 Health Services Management Seminar (1)

This course provides students with an opportunity to reflect on their managerial internship experience at a healthcare setting and to contextualize their experiences within the larger healthcare field. Students will work in small groups to help one another problem solve issues that occur during their internship experience by applying course work knowledge and skills. Students will also discuss the potential impact of current trends in healthcare practice on their current experience and on future experiences beyond their college experience. Students will prepare their program portfolio and will participate in mock experiences to prepare them of post-graduation work. *Prerequisite: All Major Coursework Except HSM 472 And 420. Corequisite: HSM-420.*

IT 101 Introduction to Information Technology (1)

This course provides first-year students an introduction to information technology including social implications and the creation, organization, analysis, storage, retrieval and communication of information. Through interactions in a small group environment, students will become more familiar with the information technology curriculum, career options and ethical issues. Students will learn about the history of information technology. A broad spectrum of information technologies and their impacts will be examined.

IT 111 Java Programming (3)

This course is an introduction to computer programming designed to provide the fundamentals for information technology students. The students will learn how to write programs in a modern high-level programming language (JAVA). Lecture and laboratory topics focus on the use of data types, variables, operators, expressions, programming constructs and input/output. Students will also have an introduction to the basics of abstract data types and object-oriented design. Good programming practices such as top-down planning, modularity, debugging strategies and documentation are also introduced and emphasized throughout the course. *Prerequisite: IT-101.*

IT 112 Java Programming II (3)

Designed as a second course in Java programming, this course explores advanced JAVA features such as applets, exception handling, internationalization, multithreading, multimedia and networking. Together with Programming I, the two courses form a comprehensive introductory on JAVA programming. Good programming practices such as top-down planning, modularity, debugging strategies and documentation are reinforced throughout the course. The associated lab component enables students to translate theory into practice. *Prerequisite: IT-111.*

IT 231 Computer Organization & Architecture (4)

This course is an introduction to computer architecture and implementation. Topics include CPU organization, memory, registers, addressing modes, busses, instruction sets, multiprocessor versus single processor, peripheral devices and input/output. Basic digital system concepts such as number systems, Boolean algebra, flip-flops, decoder, encoder, multiplexer, ROM and adder will also be covered. The laboratory provides more insight into the physical aspects of the design and implementation of modern computer systems. *Prerequisite: IT-112.*

IT 241 Data Structures & Algorithms (3)

This course is a study of the manipulation of data structures, stacks, queues, lists, linked lists and trees. Other topics covered are: integration of data structures and efficient algorithms of sorting, merging and searching in a database or file management system. *Prerequisite: IT-112.*

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IT 304 Object-Oriented Computing (3)

This course focuses on techniques in problem solving principles of object-oriented design and modeling, and structured programming using C++. It introduces the fundamental concepts of object-oriented computing: objects, classes, inheritance, abstraction, encapsulation, polymorphism and visibility. The course emphasizes high-level front-end conceptual processes of analysis and design rather than back-end implementation. By the end of the course, students will gain an appreciation for the object-oriented approach for reusability, extensibility, and easy maintenance, and avoid common software design errors. The C++ programming language is used to link the concepts to real-life software implementation. *Prerequisite: IT-112.*

IT 315 Interactive Interface Design (3)

This course is a study of the fundamental design theories of an interactive system. The topic covers the human user, the computer system and the nature of the interactive process. Theory and research along with practical applications are discussed within the context of organizational impact. Programming projects that apply the design principles are required. *Prerequisite: IT-112.*

IT 323 Database Design and Development (3)

This course is an introduction to the state of practices in modern database systems. Topics include database design, database architecture, SQL, normalization, storage structures, query processing, concurrency control, security, recovery, object-oriented and distributed database systems. Programming projects with commercial database systems and tools are required. *Prerequisite: IT-241.*

IT 331 Internet Working & Communication (3)

This course introduces basic elements of modern computer and telecommunication networks. The popular Internet TCP/IP five-layer model as well as OSI seven-layer model will be discussed. In each layer, the state-of-the-art hardware and software technologies are introduced. These include, for example, fiber-optic and mobile/cellular communications, ATM and World Wide Web. Technologies and architectures that have been developed for networking over short (LAN) and long (WAN) distances will also be explored. *Prerequisite: IT-231 MAT-120.*

IT 338 Modern Operating Systems (3)

This course provides an overview of architecture, goals and structure of an operating system. Topics include process management, memory and file system management, scheduling, security and distributed operating systems. Concepts will be illustrated with examples from existing operating systems. *Prerequisite: IT-231.*

IT 389 Special Topics (3)

Study Abroad Special Topics

IT 390 Special Topics (3)

Study Abroad Special Topics

IT 415 Sys Development Concepts Methodologies (3)

This course is an introduction to information systems development process and methodologies. Topics include product development life cycle and standards, requirement acquisition and analysis, systems design methodologies, implementation techniques, configuration management and quality assurance. *Prerequisite: IT-315 IT-304.*

IT 999 IT Transfer Elective (3)

Course transfers in as an information technology elective.

ITA Italian

ITA 101 Italian Level I (3)

This course is for beginners or those with one year or less of high school Italian, who need to strengthen basic understanding, speaking, reading and writing skills.

ITA 102 Italian Level II (3)

This course is a continuation of ITA 101.

ITA 389 Special Topics (3)

Study Abroad Special Topics

ITA 390 Special Topics (3)

Study Abroad Special Topics

ITA 400 Italian Internship (3)

This course gives students the opportunity to gain more exposure to and practice of the Italian language and culture in a professional setting that is in keeping with their own educational and vocational goals. Students will apply their skills in the written and oral forms of communication in a research or community internship placement that might include local nonprofit organizations, health clinics, or art galleries. Through agreement among the instructor/internship coordinator, the student, and the internship supervisor, the student will participate in an internship(s) for a minimum of 150 hours for the semester (approximately 10 hours per week).

LAT Latin

LAT 101 Latin Level I (3)

This introduction to Latin teaches basic vocabulary, grammar and reading.

LAT 102 Latin Level II (3)

This course is a continuation of LAT 101. *Prerequisite: Lat-101.*

LAT 201 Intro Latin (3)

Intro Latin

LAT 389 Special Topics (3)

Study Abroad Special Topics

LAT 479 Latin (3)

Latin

LAW Law

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LAW 303 Business Law I (3)
An analysis of the legal principles underlying law of contracts, sales, and torts is the subject matter of this course. Case studies are utilized to help students understand the business legal environment.

LAW 304 Business Law II (3)
This course is an analysis of the legal principles underlying the law of negotiable instruments, insurance and risk management, agency, partnerships, corporations, real property and wills.

LSK Learning Skills

LSK 001 Leadership & Personal Empowerment (0)
College preparatory course designed to empower students to seek out help when necessary, to be confident and to work together to succeed.

LSK 067 College Writing Workshop (0)
Writing instructors teach this class which covers a review of basic grammar, sentence structure, thesis development, organization, documentation, etc. Students who have mastered the material after 5 weeks of instruction have the option of "testing out." If they are unable to test out, further instruction is provided for an additional 5-9 weeks. Required for students who have an SAT EBRW Sub-score 460-510 or ACT 19-21. Concurrent with ENG-111. *Corequisite: Required for students who have an SAT EBRW Sub-score 460-510 or ACT 19-21. Concurrent with ENG-111..*

LSK 067H College Writing Workshop (0)
Writing instructors teach this class which covers a review of basic grammar, sentence structure, thesis development, organization, documentation, etc. Students who have mastered the material after 5 weeks of instruction have the option of "testing out." If they are unable to test out, further instruction is provided for an additional 5-9 weeks.

LSK 068 College Writing Tutorial (0)
Writing instructors provide individual assistance to students in writing during weekly 30-minute tutorial sessions. Tutoring is individualized to focus on the writing needs of each particular student. Pre/post-test evaluation. *Prerequisite: SAT writing 450 or below, but written SAI score of 5 or less on the SAI. Concurrent with ENG 111. This course is also designated for transfers who only take the SAI..*

LSK 070 Readiness for Literature (0)
This course is designed to prepare students to critically read, analyze, and write about college level non-fiction literature. Taught in conjunction with LSK 067.

LSK 071 College Readiness Skills (0)
This pre-collegiate course teaches students how to prepare for academic success. Topics such as time management, note taking, test taking and stress management are part of the learning experience as well as interaction with various key campus offices such as the personal counseling office, the library, student health office, financial aid, etc.

LSK 077 Content Reading (0)
Reading instructors provide assistance according to a student's individual reading and learning needs, such as reinforcing concepts, comprehension strategies, techniques for rehearsing information, test-taking skills, etc. Weekly 30-minute tutorial sessions are held for the duration of the semester. Pre/post-test evaluation.

LSK 085 Math Skills I (0)
This course is designed to assist students in basic arithmetic and algebraic computation. The summer course meets 7.5 hours/week. 22 pre/post-test evaluation.

LSK 086 Math Skills II (0)
This course is designed to assist students with a strong arithmetic background, but with limited or no exposure to algebra. Students will gain skills in real numbers, exponents, algebraic expressions and solving for algebraic equations. This course is three hours per week and includes a pre/post-test evaluation. Required for students who have an SAT Math Sub-score Below 520 or ACT Below 22.

LSK 088 Computer Workshop (0)
This course is designed to introduce students to basic computer functions such as Word, Excel, Access, and Powerpoint. Students will also be taught how to utilize the college's computer systems such as Moodle, Staci, DYC's website and online library resources. This course is offered three hours per week.

MAT Mathematics

MAT 101 Elementary Algebra (3)
The subject matter includes arithmetic and algebraic operations, linear equations and inequalities, quadratic equations, two equations and two unknowns, elementary coordinate geometry and word problems. It does not fulfill the core requirement for math and is not open to those with credit in any other math courses unless recommended by the Learning Center. Required for students who have an SAT Math Sub-score 520-540 or ACT 23.

MAT 105 Problem Solving for Chemistry (3)

MAT 117 Topics in Mathematics (3)
Topics are selected to exemplify a broad view of mathematics. The subject matter includes logic, numbers, functions, geometry, probability and topology.

MAT 120 Elementary Practical Statistics (3)
This is an introduction to the theory and application of statistics: sampling, frequency distributions, probability, confidence intervals, hypothesis testing and analysis of variance. Student who pass MAT 120 cannot subsequently take MAT 123 for credit *Prerequisite: MAT-101 or an SAI score showing mastery of the MAT-101 material..*

MAT 122 Algebra & Trigonometry (3)
The course explores concepts and graphs of basic function, including polynomial, rational, radical, logarithmic, exponential and trigonometric functions. Not open to those who have taken MAT 125.

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- MAT 123 Introduction to Applied Statistics** (4)
This course includes the underlying fundamental mathematical principles and their application to a wide range of statistical methods and tests. Included are the following: sampling, frequency distributions, probability, regression, confidence intervals, hypothesis testing, t-test, analysis of variance, chi-square and correlation. Existent computer software such as MiniTab is utilized by students to aid and facilitate the analysis of results. Not open to those who have taken MAT 120 *Prerequisite: one computer science course or take 1 course from PHY-101L PHY-103L or PHY-111L or be a pre-pharmacy student.*
- MAT 124 Intermediate Applied Statistics** (4)
This course continues and expands the material present in MAT 123. The course will cover hypothesis testing for variances, symmetric versus asymmetric distributions, non-parametric methods for one, two or multiple samples, measures of association, multifactor analysis of variance, and analysis of covariance. The material focuses on the application of known methods. Large data sets will be employed to explore the methods presented in class. The course will employ one of SPSS, MINITAB or SAS. *Prerequisite: MAT-123 with a minimum grade of C.*
- MAT 125 Calculus I** (4)
Basic theory of functions, limits, continuity, derivatives and integrals are taught. Some emphasis is placed on the structure of the real number system. *Prerequisite: MAT-122 or have an SAT Math Sub-score 600+ or ACT 26+.*
- MAT 126 Calculus II** (4)
The course explores the basic techniques for integration as well as elementary transcendental functions and the applications of differential and integral calculus. *Prerequisite: MAT-125.*
- MAT 202 Calculus III** (4)
The subject matter includes multivariate calculus, infinite series, differential equations and matrix algebra. *Prerequisite: MAT-126.*
- MAT 220 Applied Regression Analysis** (3)
The course covers the ideas behind, application of, and evaluation of regression processes, which are used to explore the relationships between variables. This course will cover simple linear regression, multiple linear regression, regression diagnostics, use of qualitative variables as predictors, transformations of variables, collinear data, and logistical regression. The material focuses on the application of known methods. Large data sets will be employed to explore the methods presented in class. The course will employ one of SPSS, MINITAB, or SAS. *Prerequisite: MAT-124 and achieve a minimum grade of C.*
- MAT 222 Statistical Computing** (3)
Students will learn about various types of relational database programs and understand the fundamental aspects of SQL (Structured Query Language). This course covers database concepts, design concepts, database administration, and web-based databases. Students will receive an introduction to the SAS programming language with a focus on manipulation, summarizing, and basic statistical analysis of large data sets. *Prerequisites: Mat-123 and achieve a minimum grade of C 1 CSC course - CSC-151 is preferred.*
- MAT 224 Biostatistics** (3)
This course provides an introduction to common experimental designs in the health sciences, such as clinical trials, case-control studies, and cohort studies, and the statistical methods used in those studies, including odds ratios, relative risk, logistic regression, longitudinal analysis, and survival analysis. Emphasis is placed on practical data analysis in biology and medicine. The course will employ one of SPSS, MINITAB or SAS. *Prerequisite: Mat-220 and achieve a minimum grade of C.*
- MAT 228 Applied Statistical Inquiry** (3)
The course will cover the process of statistical inquiry, including defining the problem, hypotheses development, selection of appropriate variables, test selection, interpretation of results, and reporting of conclusions. Large data sets will be employed to explore the methods presented in class. Group projects and oral presentations will simulate real life job experiences in the analytics industry. This course will employ one of SPSS, MINITAB or SAS. *Prerequisite: Mat-220 Mat-222 Mat-224 and achieve a minimum grade of C.*
- MAT 300 Introduction to Mathematical Reasoning** (3)
This course introduces the student to abstract mathematics and proofs. Topics covered in the course include logic, sets, relations, functions, proofing methods (including proof by induction, contrapositive and contradiction) and cardinality. *Prerequisite: MAT-126.*
- MAT 301 Real Analysis I** (3)
The study of real-valued functions of one variable properties include continuity, uniform continuity and differentiation. *Prerequisite: Mat-202 Mat-300.*
- MAT 302 Real Analysis II** (3)
This course studies Riemann-Stieltjes integration and selected topics. *Prerequisite: MAT-301.*
- MAT 303 Foundations of Geometry I** (3)
This course is a study of symmetry and isometry in two- and three-dimensional space from both the Euclidean and Cartesian viewpoints. Inversion geometries will also be covered as well as group of transformations. *Prerequisite: Mat-202 Mat-300.*
- MAT 304 Foundations of Geometry II** (3)
This course covers affine, projective, absolute and hyperbolic geometries as well as vectors and differential geometries. Students will cover some topological problems. *Prerequisite: MAT 303 Prerequisite: MAT-303.*
- MAT 310 Foundations of Mathematics** (3)
This course is a survey of the development of mathematical thought. *Prerequisites: MAT 126 and MAT 300. Prerequisite: MAT-126 MAT-300.*

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- MAT 315 Linear Algebra** (3)
An introduction to linear systems including matrices, determinants, linear transformations, vector spaces and linear independence. The student will perform most of the computation on a computer, so that familiarity with at least one higher-level programming language is presupposed. Applications include linear programming, graph theory, least squares, Markov chains and differential equations. *Prerequisite: Mat-126 Mat-300. Corequisite: CSC-151 or IT-111.*
- MAT 318 Discrete Math** (3)
Discrete mathematics includes topics that are particularly important in computer science. This course provides the student with an introduction to elementary combinatorics (counting methods and graph theory), elementary Boolean algebra and automata theory. *Prerequisite: Mat-126.*
- MAT 321 Differential Equations** (3)
This course will describe the classical methods for solving first order differential equations, systems of first order differential equations and equations of higher degree. *Prerequisite: MAT-126 MAT-300.*
- MAT 375 Math Modeling in Biology** (3)
Techniques for expressing biological molecules and concepts as mathematical expressions for analysis and comparison. *Prerequisites: (BIO-102 BIO-102L) or (BIO-303 BIO-303L) MAT-125 1 computer science (CSC or IT) course. CSC-151 or IT-111 preferred..*
- MAT 389 Special Topics** (1)
This course represents an opportunity to study a selected topic in mathematics. Topics originate with faculty or students.
- MAT 401 Abstract Algebra I** (3)
In this course, you will cover groups, quotient groups, homomorphisms, rings and fields. *Prerequisite: Mat-126 Mat-300.*
- MAT 402 Abstract Algebra II** (3)
This course covers vector spaces, extension fields, elements of Galois theory. *Prerequisite: Mat-401.*
- MAT 403 Probability** (3)
This course is an introduction to probability and basic distribution theory, mathematical expectation, discrete and continuous functions, and generating function. *Prerequisite: MAT-126 MAT-300.*
- MAT 404 Mathematical Statistics** (3)
The theory of the mathematics of statistics; sampling distributions; point and interval estimation; theory and application of testing hypotheses, regression and correlation will all be covered in this course. *Prerequisite: MAT-403.*
- MAT 407 Senior Seminar I** (2)
This course provides an opportunity for dialogue between the senior mathematics major and faculty and peers on mathematical questions. A research paper of a theoretical nature is developed by the student and presented in the group. *Prerequisites: Senior status in major or permission of the instructor; Offered as needed.*
- MAT 408 Senior Seminar II** (2)
This course provides an opportunity for dialogue between the senior mathematics major and faculty and peers on mathematical questions. A research paper of a theoretical nature is developed by the student and presented in the group. *Prerequisites: Senior status in major or permission of the instructor; Offered as needed.*
- MAT 410 Number Theory** (3)
Number Theory is an introductory course in number theory, divisibility, congruences, Diophantine equations, continued fractions and Gaussian Integers. *Prerequisites: MAT 126 and MAT 300 Prerequisite: MAT-126 MAT-300.*
- MAT 412 General Topology** (3)
This course covers metric spaces, continuous mappings, topological spaces, compactness, separation and connectedness. *Prerequisites: MAT 301 Prerequisite: MAT-301.*
- MAT 414 Complex Analysis** (3)
This course studies analytic functions, complex integration and infinite series. *Prerequisites: MAT 202 and MAT 300 Prerequisite: MAT-202 MAT-300.*
- MAT 417 Introduction to Graph Theory** (3)
This course will provide a first introduction to the theories and applications of graphs. Topics covered in the course include basic definitions and examples, paths, cycles, trees, planarity, graph colorings, digraphs and matching. *Prerequisite: MAT-126 MAT-300.*
- MAT 420 Introduction to Linear Models** (3)
Method of least squares, correlation, residual analysis, multiple linear regression, and introduction to generalized linear models. *Prerequisite: MAT 404 or permission of instructor. Prerequisite: MAT-404 or Permission of Instructor.*
- MAT 421 Design of Experiments** (3)
Methods of designing, conducting, and analyzing experiments, overview of sampling methods, sampling distributions, ANOVA, sample size calculations, nonparametric methods, randomized blocks, Latin squares, factorial designs, and the random effects model. *Prerequisite: MAT-404 or Permission of Instructor.*
- MAT 424 Numerical Analysis** (3)
Numerical solutions to the applications of calculus and linear algebra are covered in this course. Economic and scientific interpretations of functions are stressed. *Prerequisites: MAT 126 and either CSC 151 or IT 111. Prerequisites: MAT-126 CSC-151 or IT-111.*
- MAT 443 Methods of Teaching Mathematics** (3)
This course covers current issues in mathematics education, secondary school mathematics curricula and contemporary approaches to the teaching of mathematics. *Prerequisite: MAT-126 MAT-300.*
- MAT 479 Data Analysis Methods** (3)
Topics will be chosen by the instructor. *Prerequisite: Mat-126 Mat-300.*
- MAT 480 Statistical Applications** (3)
Topics will be chosen by the instructor. *Prerequisite: MAT-126 MAT-300 MAT-479.*

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MAT 499 Capstone Experience (1)

MAT 602 Statistics Seminar (1)

This specialized course is designed to provide students with the intermediate level statistics information needed to enroll in GRA 601. It includes two hours of computer laboratory per week.

MAT 999 Math Elective (3)

Course transfers in as a math core elective.

MGT Management

MGT 304 Communicating in Organizations (3)

The course deals with the relation of interpersonal communication to communications strategies in organizations. Students analyze communication networks and the relationship to group characteristics and productivity, leadership and conflict as they relate to communication in the organization. *Prerequisite: Mgt-305 or Permission of Instructor.*

MGT 305 Principles of Management (3)

This course focuses on the nature and theory of management. It emphasizes the functional application of the basic principles of management to realistic business situations.

MGT 315 Financial Management (3)

This course deals with financial statements and financial analysis of business firms, tax considerations, net present value and internal rate of return, budgeting, investments and cost of capital. *Prerequisite: ACC-212 MGT-305 or Permission of Instructor.*

MGT 316 Pc & E-Commerce for Managers (3)

The course introduces students to computerized business applications, word processing, spreadsheets, databases, presentation software and e-commerce concepts. Students are given thorough hands-on familiarization of the personal computer and the completion of various business applications on the computer.

MGT 318 Information and Communication Tech Mgt (3)

The course explores the role, meaning, background and theory of MIS in the organization and focuses on planning, implementation, effect and challenges of management information and communication technologies. *Prerequisites: MGT-305 CSC-110 or CSC-151. Not applicable to ADVANCE students. See instructor for requisite override.*

MGT 321 Entrepreneurship I (3)

The course is a study of entrepreneurship in today's small business or private practice environment. The student will be brought through the processes of starting and developing one's own business or practice, from the original product or service concept through the birth and growth of the organization. The course will be presented in the context of applicable New York state law.

MGT 323 Entrepreneurship II (3)

Using skills acquired in MGT 321, students develop a formal business plan which includes marketing, management, financial and operational components of a business. *Prerequisite: MGT-321.*

MGT 350 Leadership (3)

This course is an analysis of the discipline of leadership. It offers an overview of multiple leadership theories and research in relation to organizations. This course explores topics such as transformational theory, situational leadership, trait theory and major researcher and authors related to leadership

MGT 389 Special Topics in Management (3)

This is a seminar course in a topic related to the field of management. At the time of offering, a subtitle will indicate the specific content of the course.

MGT 390 Special Topics in Management (3)

This is a seminar course in a topic related to the field of management. At the time of offering, a subtitle will indicate the specific content of the course *Prerequisite: Mgt-305 or Permission of Instructor.*

MGT 401 Organizational Behavior (3)

This course is a study of people as they behave in organizations, motivation, attitudes, personality patterns and their relation to behavior in business and other organizations. *Prerequisite: MGT-305 Or Permission of Instructor.*

MGT 407 Operations Management (3)

The course is a study of decision making as a managerial function. It relates models of decision making to their effectiveness in changing situations. Emphasis is placed on the planning and control in the context of decision-making strategies. *Prerequisite: MGT-305 and ECO-207 or Permission of Instructor.*

MGT 411 International Business (3)

This course focuses on the legal, economic, historical, sociological, political and philosophical concepts operative in multinational business. *Prerequisite: Mgt-305 or Permission of Instructor.*

MGT 412 Mgmt Strategy and Policy (3)

This course is designed to demonstrate ways in which various functions and subsystems of the management process are related to and interact with each other. *Prerequisite: MGT-401 MGT-315 or Permission of Instructor.*

MGT 435 Health Care Management (3)

This course deals with working with staff, understanding dynamics of human behavior, goal setting and problem-solving techniques. *Prerequisite: MGT-305.*

MGT 444 Internship (3)

This course provides specially selected, highly motivated students with the opportunity for experience in their area of specialization prior to graduation.

MGT 445 Internship (1)

Students receive on-the-job experience in an area of their specialty. Students work 20-35 hours per week for ten to 15 weeks, dependent on desired credit.

MGT 999 Management Transfer Elective (3)

Course transfers in as a 300/400 management elective.

MKT Marketing

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MKT 304 Principles of Marketing (3)

The course focuses on the fundamental concepts of marketing, such as analyses of buyer behavior, product development and distribution, and marketing research, planning and forecasting.

MKT 389 Special Topics (3)

MNS Math & Natural Science

MNS 499 Capstone Experience (0)

This course is designed to be a capstone experience in the form of a research experience, internship/practical experience, or service learning experience. Students enrolled in this course will usually be completing a structured minor. Through this course, the student will bring together knowledge and skills learned in coursework into an integrated project that will conclude in a paper and presentation of the student work.

MUS Music

MUS 100 Music Appreciation (3)

This is a basic introduction to music with emphasis on elements of music and musical styles. The course seeks to develop an understanding of music as well as the levels and spheres in which music is appreciated. Offered in the fall semester.

MUS 200 Appreciation of Music (3)

This course studies music elements, style, form and history through readings and in-depth listening. Students are taught how to listen to music and identify musical period, composer and composition style, orchestration and elements of music. A study of music in the Middle Ages, Renaissance, Post-Romantic era and 20th-century jazz, rock and blues will be included in this course. *Prerequisite: Mus-100 Recommended But Not Required.*

MUS 209 Intro to the American Musical Theater (3)

This course surveys the elements of musical theater, e.g., lyrics, score, dance and design. The historical development of musical theater from opera to American stage musicals are covered.

NTR Nutrition and Health

NTR 325 Nutrition and Health (3)

The course will introduce the student to nutrition science and public health issues related to nutrition. The fundamentals of carbohydrates, protein, lipids, vitamins, minerals and metabolism will be explored. Emphasis will be placed on diet planning and analysis, energy balance and the role of diet and physical activity in a healthy lifestyle and disease prevention. Highlights of current topics in nutrition, such as eating disorders, vegetarian lifestyles and fad diets will also be addressed. *Prerequisite: 1 college level chemistry course.*

NTR 327 Nutrition Throughout the Life Cycle (3)

This three-credit course will examine nutritional needs and issues throughout the life span with special emphasis on preconception, pregnancy, lactation, infancy, childhood, adolescence and aging. Normal nutrition topics and nutrition-related conditions and interventions will be studied for each stage of the life cycle. Nutrient needs and recommendations will be addressed as well as age-related physiological changes. Specific attention will be given to current public health issues and model public food and nutrition programs. Current evidence-based practice recommendations will be covered with use of position papers by the Academy of Nutrition and Dietetics and American Academy of Pediatrics. This course consists of three lecture hours.

NUR Nursing

NUR 110 Population Based Nursing (3)

The history, scope of practice and role of nursing as it relates to preventive health practices and health promotion are introduced. A broad population focused perspective on factors that affect the health of the public, including systems thinking, health and safety, and cultural sensitivity concepts is presented. Epidemiologic factors, health surveillance, and the health-illness continuum are explored. Healthy People National Goals and Objectives are introduced through a service learning component. Prerequisite: Nursing Major

NUR 115 Nursing Success Seminar I (2)

This course designed to help first-time freshmen nursing students learn and improve skills essential to academic success. Students identify their educational goals, personal strengths, and areas for development; become familiar with college resources and services; and explore strategies for academic success such as time management, and study skills. Prerequisite: Nursing Major

NUR 116 Nursing Success Seminar II (1)

A 10-week course designed to expose freshmen nursing students to the skills and attributes needed to become a professional nurse. The course will focus on development of critical thinking skills, professionalism, effective communication skills, and ethical considerations in practice, team building, and self-management. Prerequisite: Nursing Major

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- NUR 210 Health Assessment Across the Lifespan (4)**
 This course focuses on the role of the professional nurse as a direct care provider in terms of assessing the health status of individuals from socially and culturally diverse backgrounds across the life span. Strong emphasis is placed on the application of communication techniques to establish a nurse-patient relationship and to elicit a health history. The course also focuses on the use of physical assessment techniques, namely inspection, palpation, percussion, and auscultation. Assessment findings will be analyzed to identify the health needs of individuals in relation to health promotion. Students are introduced to the role of the nurse as consumer of research as it applies to health assessment and health promotion. Strategies to facilitate patient empowerment and self-responsibility are presented. The outcomes of this course will reflect not only students' level of skill in performing health assessments but also in communicating assessment findings using professional documentation standards. *Prerequisites:* BIO-107 BIO-107L BIO-108 BIO-108L PSY-203 (CHE-114 CHE-114L) or (CHE-101 CHE-101L CHE-112) or (CHE-101 CHE-101L BIO-303) or (CHE-111 CHE-112 CHE-113L). *Corequisites:* NUR-210L BIO-208 BIO-208L NUR-110 NUR-280.
- NUR 210L Health Assessment Lab (0)**
 On-campus laboratory course to accompany NUR-210. *Corequisite:* NUR-210L. *Corequisite:* NUR-210.
- NUR 215 Women's Health Issues (3)**
 This course focuses on health issues unique to women. Current approaches and research are discussed in the light of emotional and sociological needs of this group. The responsibility of women for self-examination and monitoring of their health and the impact of being a woman in today's world are stressed. The role of the professional nurse as a health care provider, advocate and health teacher in collaboration with other members of the health care team (social workers, teachers, etc.) will be explored. Open to all students.
- NUR 216 Transcultural Nursing (3)**
 This course will focus on developing cultural awareness in individuals who practice in the health-related professions. Ethnocentrism, ethnic practices, cultural diversity, workplace cultural behavior and intercultural problems as they relate to health care are presented.
- NUR 240 Fundamentals of Nursing (4)**
 This course focuses on the role of the professional nurse as the direct care provider utilizing the nursing process when planning care for individuals across the lifespan. Strong emphasis is placed on the understanding of the theory required to safely perform technical nursing skills. Students will analyze patient scenarios to identify the nursing skills necessary to provide quality nursing care. Focus is on the patient-centered approach, which considers physiological, developmental, cultural, and spiritual needs, and preferences of the patient. *Prerequisites:* BIO-107 BIO-107L BIO-108 BIO-108L PSY-203 (CHE-114 CHE-114L) or (CHE-101 CHE-101L CHE-112) or (CHE-101 CHE-101L BIO-303) or (CHE-111 CHE-112 CHE-113L). *Corequisites:* NUR-240L BIO-208 BIO-208L NUR-110 NUR-210 NUR-210L NUR-280.
- NUR 240L Fundamentals Lab (0)**
 On-campus laboratory course to accompany NUR-210. *Corequisite:* NUR-240. *Corequisite:* NUR-240.
- NUR 250 Health Assessment (3)**
 This course is designed for the RN student and focuses on the role of the professional nurse as a direct care provider in terms of assessing the health status of individuals across the life span. Strong emphasis is placed on the refinement of interviewing skills and physical assessment techniques for the purpose of eliciting a detailed health history and complete physical examination. Students will focus on analyzing assessment findings in order to identify the health needs and problems of individuals from socially and culturally diverse backgrounds. Opportunities to practice health assessment and documentation skills will be provided in an on-campus laboratory setting. Open to nursing students only.
- NUR 260 Nursing Care of the Older Adult Chronic Conditions (5)**
 This course introduces the student to major concepts related to the care of the older adult patient with chronic illness in a variety of settings. The course will explore theories and concepts related to the aging process in health and illness based upon Maslow's Hierarchy of Needs. Students will utilize evidence-based practice in the prevention of complications related to chronic disease. Students will employ a wide variety of leading health indicators via assessment tools, evidence-based protocols and standards. Patient safety and prevention of complications related to chronicity will be emphasized. Students will be provided clinical experiences in a variety of settings. Students will develop the ability to work collaboratively with other healthcare disciplines in providing safe, competent and ethical patient care. *Prerequisite:* BIO-208 BIO-208L NUR-110 NUR-210 NUR-210L NUR-240 NUR-240L NUR-280. *Corequisite:* NUR-285.
- NUR 260L Nursing Care Lab--Older Adult Chronic Conditions (0)**
 Clinical laboratory course to accompany NUR-260. *Corequisite:* NUR-260. *Corequisite:* NUR-260.
- NUR 280 Pathophysiology for Nursing (3)**
 This course provides an in-depth study of abnormal physiology with emphasis on nursing implications related to pathologic processes affecting patients across the lifespan. The major body systems and related pathology are explored. Focus is on etiology, manifestation, diagnosis, and treatment of disease from a patient-centered nursing perspective. *Prerequisites:* BIO-107 BIO-107L BIO-108 BIO-108L (CHE-114 CHE-114L) or (CHE-101 CHE-101L CHE-112) or (CHE-101 CHE-101L BIO-303) or (CHE-111 CHE-112 CHE-113L).
- NUR 285 Pharmacology for Nursing Practice (3)**
 This course focuses on the role of the nurse as a member of the interdisciplinary healthcare team responsible for the management of health problems using pharmacologic and nonpharmacologic interventions. Major classifications of pharmacologic agents are presented. Emphasis is on patient response across the lifespan, with the goal of preparing students to administer these agents in a knowledgeable, safe, and therapeutic manner. *Prerequisite:* NUR-280 BIO-208 BIO-208L.

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NUR 360 Nursing Care of the Adult Acute and Chronic Health Conditions (7)

This course builds on concepts learned in previous courses and emphasizes care of the adult with acute medical/surgical health conditions utilizing Maslow's Hierarchy of needs. Students will provide quality care for acute care patients from admission through discharge with emphasis on patient education and health promotion. Students will practice in a variety of clinical settings and laboratory simulations. Students will enhance their ability to work collaboratively with other healthcare disciplines in providing safe, competent and ethical patient care. *Prerequisite: NUR-260 NUR-260L NUR-285. Corequisite: NUR-360L NUR-380.*

NUR 360L Nursing Care Lab--Adult Acute and Chronic Health Conditions (0)

Clinical laboratory course to accompany NUR-360. *Corequisite: NUR-360. Corequisite: NUR-360.*

NUR 380 Evidence Based Practice (3)

This course is an introduction to the nursing role related to evidence-based practice. Content includes how evidence-based practice contributes to the development of nursing knowledge, improves nursing practice, supports design of nursing systems, and enhances education and professional accountability. The historical evolution of nursing research and evidence-based practice is examined and current issues are analyzed. Ethical considerations and rights of human subjects are explored. As a consumer of evidence-based practice, the student develops the ability to integrate best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care. *Prerequisite: NUR-210 NUR-210L NUR-240 NUR-240L or be in the RN to BSN online nursing program..*

NUR 389 Special Topics in Nursing (0)

This course provides students an opportunity to study a selected topic in nursing with a small group of students; topics may evolve from either student or faculty interest Offerings include a one credit summer clinical experience available to eligible students between their junior and senior years; this option is subject to availability of placements in affiliating health care facilities.

NUR 442 Professional Issues (3)

This course focuses on the professionalization process as it applies to the associate degree or diploma registered nurse transitioning to the level of baccalaureate prepared registered nurse. Scope and standards of practice for advanced entry level nursing education and practice are analyzed. Attention is given to historical,socio-political and economics trends influencing nursing education and practice;legal and ethical issues;and the relationship of theory to research in guiding nursing practice. The ability to formulate and express ideas through professional writing is emphasized.

NUR 443 Clinical Foundations (3)

This course will integrate principles of pathophysiology, physical assessment, and pharmacology as a foundation to support the role of the bachelor's prepared nurse in clinical practice. Focus will be on the development of knowledge of human pathophysiological functions and response to selected disease processes and the integration of this knowledge into evidenced-based nursing practice. The integration of health assessment skills and pharmacological interventions essential for nursing practice will also be included.

NUR 461 Community & Population Based Nursing (3)

This course provides a broad population focused perspective on factors that affect the health of the public,including systems thinking,health & safety,and cultural sensitivity concepts. Epidemiologic factors, health surveillance, and the health-illness continuum are explored. Healthy People National Goals and Objectives are introduced through community assessment. Patient education and case management of health risks are emphasized. This is a clinical course involving 60 hours of clinical with a preceptor throughout the semester at a location selected by student and faculty collaboratively. *Prerequisite: NUR-442.*

NUR 462 Vulnerable Populations (3)

This course provides an overview of healthcare issues and challenges faced by vulnerable populations, individuals are viewed in the context of family, social and healthcare systems. The influences of factors such as healthcare disparities,stigma,and culture are examined with regard to patient outcomes. Consistent with the value of holism,the role of spirituality is the integrated into physical and behavioral health and illness in keeping with the nursing value of holism. *Prerequisite: NUR-442.*

NUR 470L Nursing Care Lab--Community and Mental Health (0)

Clinical laboratory course to accompany NUR-470. *Corequisite: NUR-470. Corequisite: NUR-470.*

NUR 470 Concepts in Community and Mental Health Nursing Care (6)

This course focuses on community and population-based care and mental health needs of developmentally, culturally, and spiritually diverse individuals, families, and groups. Emphasis is on utilization of critical thinking, nursing interventions, effective communication, and patient education within mental health and community health settings. Physical and behavioral adaptation is emphasized in the context of a community/mental health continuum and a social systems framework. *Prerequisite: NUR-360 NUR-360L NUR-380. Corequisite: NUR-470L.*

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NUR 471 Nursing Care of Childbearing and Childrearing Families

(6)

The focus of this course is the role of the professional nurse as a direct care provider, advocate, and collaborative partner in the promotion, maintenance, and restoration of health for childbearing and childrearing families. Learning activities emphasize identification of health-related needs and planning, implementation and evaluation of evidence-based, patient centered care. The nurse's role as a member of the interdisciplinary health care team in a variety of settings is explored. Utilization of informatics and recognition of system effectiveness are incorporated in order to facilitate safe, quality care and optimum health outcomes. *Prerequisite:* NUR-360 NUR-360L NUR-380. *Corequisite:* NUR-471L.

NUR 471L Nursing Care Lab--Childbearing and Childrearing Families

(0)

Clinical laboratory course to accompany NUR-471 *Corequisite:* NUR-471. *Corequisite:* NUR-471.

NUR 480 Nursing Care of Patients With Complex Health Needs

(6)

This course focuses on concepts related to the knowledge, skills and professional behaviors for the patient requiring complex nursing care. These concepts are built from previous courses and applied to the care of patients experiencing advanced or complicated health alterations. The course integrates evidence-based practice, informatics, interdisciplinary teamwork, safety and patient centered care. *Prerequisite:* NUR-470 NUR-470L NUR-471 NUR-471L NUR-485. *Corequisite:* NUR-480L.

NUR 480L Nursing Care Lab--Patients With Complex Health Needs

(0)

Clinical laboratory course to accompany NUR-480 *Corequisite:* NUR-480. *Corequisite:* NUR-480.

NUR 481 Leadership to Advance Quality and Safety

(3)

This course explores QSEN competencies of teamwork and collaboration, safety, evidence based care, informatics, quality improvement, and patient centered care. Leadership theory and skills exploring delegation, conflict resolution, ethical decision-making, working relationships and leadership are emphasized. Inter professional collaboration based on professional nursing standards is explored within the broad context of teamwork principles. The course contains the capstone assignment for the RN-BSN student. This is a clinical course involving 60 hours of clinical with a preceptor throughout the semester at a location selected by student and faculty collaboratively. *Prerequisite:* NUR-380 NUR-442 and NUR-461..

NUR 485 Systems Leadership for Quality Care and Patient Safety

(3)

This course explores organizational and systems leadership, quality improvement and safety measures critical to implementing high quality nursing care. Leadership theory and skills exploring delegation, conflict resolution, ethical decision-making, working relationships and leadership are emphasized. Interprofessional collaboration based on professional nursing standards is explored within the broad context of cultural, economic, organizational and political backdrops. *Prerequisite:* (NUR-470 NUR-470L) or (NUR-471 NUR-471L).

OT Occupational Therapy

OT 101 OT Process & Theoretical Foundations I

(2)

This course is an introduction to the profession of occupational therapy and the occupational therapy process. An historical perspective of the OT profession's development and the theoretical bases, its professional ethics and regulations, and the role of the occupational therapist in society are covered. An introduction to the roles of occupational therapy personnel and how, as professionals, the code of ethics and professional credentials relate to practice. Students will be introduced to the theory, philosophy, and research that guide practice is presented. Current and potential environments for OT practice will be discussed.

OT 106 Occupational Development I

(4)

This course consists of a study of normal occupational, neuromuscular, motor, sensory, perceptual, cognitive and psychosocial development from prenatal through adolescence. It includes analysis of occupation as a facilitator and marker of human development. An in-depth exploration of the occupational therapy practice framework, domain and process is provided. The lab includes observation of developmental markers and task analysis of developmentally appropriate occupations. [3 hour lecture, 2 hour lab].

OT 106L Occup Dev I Lab

(0)

OT 109 Medical & Social Conditions I

(2)

This course provides an overview of selected medical and social conditions that affect engagement in occupation in childhood and adolescence. Topics include selected developmental, musculoskeletal, mental health conditions and disabilities, and social conditions that affect development, such as child abuse/neglect, poverty and educational level. [2 hour lecture].

OT 210 Medical & Social Conditions II

(2)

This course provides an overview of selected medical and social conditions that affect engagement in occupation for adults and older adults. Topics include selected neurological, cardiopulmonary, medical, and psychosocial conditions and disabilities. End-of-life issues are addressed. Social conditions such as unemployment, family structure and elder abuse are discussed. The impact of environmental conditions on health is also addressed. [2 hour lecture].

OT 212 Occupational Development II

(4)

This course includes a study of normal occupational, physical, cognitive, psychosocial and neuromuscular development from young adulthood to senescence. It emphasizes occupational choice, role performance and analysis of occupation as a facilitator and marker of human development. The lab includes analysis of developmentally appropriate occupations, application of teaching learning principles, and general safety and wellness promoting behaviors. [3 hour lecture, 2 hour lab]. *Prerequisite:* OT-106.

OT 212L Occup Dev II Lab

(0)

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- OT 214 Interpersonal Skills** (2)
This course is a study of selected interpersonal communication theories and skills that are the foundation of effective professional relationships and therapeutic use of self. It includes discussion, skill building and role playing with critiquing. [1 hour lecture, 2 hour lab].
- OT 214L Interpersonal Skills Lab** (0)
- OT 215 OT Delivery Systems** (2)
This course is an examination of delivery models in which occupational therapists function. The health care system will be included, as will the educational system, the social system and the community. Examples of OT programs will be presented within each system of delivery and delivery model that affects OT practice. Traditional and non-traditional models of delivery of OT services will be described. [2 hour lecture].
- OT 217 Group Process** (2)
This course is a study of selected group process theories and skills that are the foundation of effective group relationships, therapeutic use of self, and group leadership. This course includes discussion, skill building, and role playing with critiquing. [1 hour lecture, 2 hour lab].
- OT 217L Group Process Lab** (0)
- OT 313 Psychosocial Level I Fieldwork** (1)
This course is a Level I fieldwork experience that is integral to and consistent with the sequence, depth, focus and scope of content in the curriculum design of the program. It is a part-time experience consisting of a minimum of 25 hours, which can take place in a setting that serves one or more of the various needs of individuals and requires a focus on psychological and social factors that influence engagement in occupation for individuals across the lifespan. *Prerequisite: OT-214 OT-321.*
- OT 319 Functional Anatomy** (5)
This course includes a study of human anatomy with emphasis on the musculoskeletal and nervous systems. It integrates human anatomy with analysis of movement including measurement of action, movement within a task and biomechanics. The course includes lab and lecture. The lab includes gross anatomy dissections, CD-ROM, recitation and experiential kinesiology. [3 hour lecture, 4 hour lab]. *Prerequisite: BIO-107 BIO-108. Corequisite: OT-319LF and OT-319LG.*
- OT 319LF Functional Anatomy Lab** (0)
Corequisite: OT-319.
- OT 319LG Functional Gross Anatomy Lab** (0)
Corequisite: OT-319.
- OT 320 Neuroscience for Rehabilitation** (5)
This course is a study of the anatomy and physiology of the nervous system, neurological factors underlying dysfunction and occupational therapy approaches to treatment. It integrates neuroanatomy and physiology with movement, sensation, cognition, perception and psychological function. Selected practice models addressing psychosocial, pediatric and adult physical disabilities will be studied. Course includes lecture and lab. Lab and recitation include neuroanatomy models, neurophysiology CD-ROM, recitation, guided practice on selected therapy techniques and treatment planning based on case studies. [4 hour lecture, 3 hour lab, 1 hour recitation]. *Prerequisite: OT-319.*
- OT 320L Neuro Rehab Lab** (0)
- OT 320LG Neuroscience Lab** (0)
- OT 321 Fieldwork Seminar I** (0)
This seminar is designed to involve students in the analysis and preparation for professional practice, to introduce students to the fieldwork process, and to prepare them for fieldwork selection. [1 hour per week].
- OT 323 Pediatric & Adolescent Level I Fieldwork** (1)
Prerequisite: OT-101 OT-109 OT-210 OT-212 OT-320. Corequisite: OT-425 OT-427.
- OT 330 Adult & Geriatric Level I Fieldwork** (1)
Prerequisite: OT-320. Corequisite: OT-433 OT-635.
- OT 380 Special Topics** (1)
- OT 425 OT Process & Theoretical Foundations II** (2)
This course is an introduction to the theories, philosophies and research that guide practice in OT. Pediatric (referring to both children and adolescents) practice environments will be described and pediatric models will be studied. [2 hour seminar]. *Prerequisite: OT-101 OT-320.*
- OT 427 OT Methods of Evaluation & Documentation I** (2)
This course is an introduction to the principles and techniques of OT evaluation and documentation. The evaluation process, types of assessments, and the interpretation and documentation of evaluation data pertinent to pediatric practice will be included. [1 hour lecture, 2 hour lab]. *Prerequisite: OT-101 OT-109 OT-210 OT-212 OT-214. Corequisite: OT-425.*
- OT 427L OT Methods of Eval & Doc Lab** (0)
- OT 429L Child & Adol.Interv.Lab** (0)
- OT 429 Child & Adolescent Intervention** (4)
This course is an application of OT concepts and processes to prevent and remediate occupational role dysfunction in individuals from infancy through adolescence. It includes exploration and application of selected therapeutic methods, strategies, and techniques. The laboratory includes guidance and practice in treatment methods. Level I fieldwork experience with children or adolescents is included. [3 hour lecture, 2 hour lab, level I fieldwork].

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- OT 429C Level I Fieldwork** (0)
- OT 432 Fieldwork Seminar II** (0)
This seminar is designed to prepare students for fieldwork experiences and responsibilities. Personal and professional behaviors required on fieldwork are discussed. Strategies for success in fieldwork are offered, and preparation/ arrangements for fieldwork will be finalized. [1 hour per week]. *Prerequisite:* OT-321.
- OT 433 OT Methods of Evaluation & Documentation II** (2)
This course is a continuation of OT 427 and offers an in-depth study of the evaluation and documentation principles and procedures used by occupational therapists. The evaluation process, types of assessments, and the interpretation and documentation of evaluation data pertinent to occupational therapy practice with adults and elders will be studied. [1 hour lecture, 2 hour lab]. *Prerequisite:* OT-427.
- OT 433L OT Meth Evaluation and Document Lab II** (0)
- OT 434 Adult and Geriatric Intervention** (4)
This course is an integrated theory and practice course examining OT models and techniques for prevention and remediation of role dysfunction and maintenance of competence and adaptation in individuals from adulthood through senescence. Includes exploration of related research, introductory and advanced therapeutic assessments, and techniques. Laboratory includes guidance and practice in the implementation of assessment and treatment methods. Level I fieldwork experience with adults or elders included. [2 hour lecture, 3 hour lab, level I fieldwork]. *Prerequisite:* OT-320.
- OT 434L Adult Ger Inter Lab** (0)
- OT 434C Level I Fieldwork** (0)
- PA Physician Assistant**
- PA 303 Clinical Medicine I** (5)
This course is a comprehensive study of diseases with emphasis on etiology, pathophysiology, signs and symptoms, diagnostic procedures, critical review of medical literature, preventive care and therapeutic measures involved in treating medical problems. Topics will be presented through demonstrations, discussions and clinical conferences as well as lectures by physicians, physician assistants and other appropriate health professionals. This course will include discrete blocks on major organ systems and special populations. It is closely integrated with the pharmacology, clinical skills and physical diagnosis courses. *Prerequisite:* BIO-307 BIO-339. *Corequisite:* PA-335 PA-309 PA-312.
- PA 304 Clinical Medicine II** (5)
Continuation of Clinical Medicine I. *Prerequisite:* PA-303. *Corequisite:* PA-336 PA-311 PA-313 PA-310.
- PA 305 Behavioral Medicine** (2)
This course focuses on understanding human behavior in health and illness. Health, illness and sick role behaviors, psychosocial factors in the etiology of illness, patient compliance with prescribed therapeutic regimens, use of health behavior models in patient education, health maintenance, and disease prevention and sexuality will be discussed.
- PA 309 Clinical Laboratory Medicine I** (2)
This course explores common laboratory procedures employed in the evaluation of disease processes. Students develop proficiency in understanding such routine procedures as a CBC, urinalysis, gram stains and cultures. Students develop skills in interpreting clinical laboratory values in relation to disease, therapy and prognosis. *Prerequisite:* BIO-208 CHE-102. *Corequisite:* PA-303 PA-335 PA-312.
- PA 310 Clinical Laboratory Medicine II** (2)
This course is a continuance of PA 309. *Prerequisite:* PA-309. *Corequisite:* PA-304 PA-311 PA-313 PA-336.
- PA 311 Clinical Skills** (3)
Proper methods of performing various clinical procedures such as intravenous catheter insertion, intramuscular injections, passing nasogastric tubes, applying casts and drawing blood will be covered in this course. *Prerequisite:* BIO-208 BIO-339. *Corequisite:* PA-304 PA-310 PA-312 PA-336.
- PA 312 Physical Diagnosis I** (2)
Most of the course is devoted to the development of physical examination skills and the art of developing a rapport with patients. By the end of the course, students will have received instruction and training in basic communication skills and how to conduct a medical interview, as well as training in techniques of physical diagnosis. The course includes the use of simulated patients, as well as a range of field experiences to provide direct contact with patients and practicing physicians. This allows students to interact with patients and to integrate knowledge and skills in the setting of clinical interactions *Prerequisite:* BIO-339. *Corequisite:* PA-303 PA-309 PA-335.
- PA 312L Physical Diag Lab** (0)
- PA 313 Physical Diagnosis II** (2)
This course is a continuation of PA 312. *Prerequisite:* PA-312. *Corequisite:* PA-304 PA-310 PA-311 PA-336.
- PA 313L Physical Diagnosis Lab** (0)
- PA 335 Pharmacology I** (3)
This course includes topics such as pharmacotherapeutics, drug absorption, distribution and metabolism and drug interactions. The course is closely integrated with the clinical medicine course. All major systems of the body are covered in relation to drugs and diseases. *Prerequisite:* BIO-107 BIO-108 BIO-303. *Corequisite:* PA-303 PA-309 PA-312.
- PA 336 Pharmacology II** (3)
This course is a continuation of Pharmacology I. The course explores clinical pharmacology and medical therapeutics, including disease states and their medical management. *Prerequisite:* PA-335. *Corequisite:* PA-304 PA-310 PA-311 PA-313.

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- PA 389 Elective Pract I** (3)
Study Abroad Special Topics
- PA 400 Clinical Rotations** (1)
- PA 401B Internal Medicine** (3)
Over a four-week period, the course provides the foundation for clinical evaluation and treatment. Training may occur in inpatient internal medicine in hospitals or outpatient internal medicine. The rotation will expose the student to adult populations and their medical problems. The student will learn clinical presentation of general medical problems, evaluation, therapeutic intervention and methods of documentation.
- PA 401C Family Medicine** (3)
This course is presented on a four-week rotation and exposes students to patients from all age groups, from pediatrics to geriatrics. Students will learn the clinical presentation of general medical problems, evaluation, therapeutic intervention and methods of documentation in a family practice setting.
- PA 402 General Surgery** (3)
During the four-week general surgery rotation, students will learn management of surgical patients in the hospital and in ambulatory settings including presentation and workup of common surgical problems, as well as surgical interventions, and in-hospital care of the pre-and postoperative patient.
- PA 403 General Pediatrics** (5)
This six-week rotation provides the opportunity to assess medical problems that require both inpatient and outpatient management of children. Students will get practical clinical experience in the outpatient setting managing routine childhood illnesses and health maintenance, and with the medical team in the hospital at the time of delivery assessing, the newborn and caring for children with more severe medical problems. Documentation in the medical record will augment skills previously acquired for data collection. Students will come to understand the influence that family interactions can have on the course of the patient's development, wellbeing and illness.
- PA 404 Obstetrics and Gynecology** (3)
OB/GYN is a four-week rotation with the purpose of providing practical clinical experience for the evaluation and treatment of women. Experience will be gained in the areas of general women's health; family planning, pre-, intra- and postpartum care; as well as routine gynecologic care for sexually transmitted diseases, dysmenorrhagia and menopausal health. Students will come to understand the effects that sexual activity, childbearing and menopause have on a woman's psychological, social and medical well-being.
- PA 405 Psychiatry** (3)
The purpose of the four-week psychiatry rotation is to provide the student with clinical experience in the varied presentations of mental illness. The student will have an opportunity to evaluate, identify and learn management of both acute and non-acute psychiatric patients.
- PA 406 Emergency Medicine** (3)
Emergency medicine is a four-week rotation with the purpose of providing practical clinical experience in the care of acute medical emergencies. Students will develop an understanding of the concept of triage in an emergency situation where care is provided to the development of physical examination skills, and the art of developing rapport with patients. By the end of the course, students will have received instruction and training in basic communication skills and how to conduct a medical interview, as well as future care.
- PA 407 Geriatrics** (1)
The two-week course will take place in a freestanding, long-term care facility or inpatient skilled nursing facility and provide students with experience addressing the special needs of this patient population. Prerequisite: Successful completion of all third-year courses.
- PA 408 Orthopaedics** (3)
The four-week orthopedics rotation will give students the opportunity to observe treatment of common musculoskeletal complaints. The rotation will combine clinical experience in an ambulatory practice setting with following orthopedic patients in the hospital.
- PA 411 Primary Care** (6)
- PA 412 Senior Seminar Clinical Enrichment A** (0)
This is a required companion course to clinical rotations and is offered each semester throughout the clinical phase of the program. The course encompasses clinical enrichment content presented during required monthly Senior Seminar Days, as well as required online clinical enrichment activities such as board review questions, case scenarios, and weekly quizzes, which are made available to students throughout the clinical phase.
- PA 413 Senior Seminar Clinical Enrichment B** (0)
This is a required companion course to clinical rotations and is offered each semester throughout the clinical phase of the program. The course encompasses clinical enrichment content presented during required monthly Senior Seminar Days, as well as required online clinical enrichment activities such as board review questions, case scenarios, and weekly quizzes, which are made available to students throughout the clinical phase.
- PH Public Health**
- PH 301 Health Behavior** (3)
This course will review the determinants of health-related behavior and important theories, as well as discuss how these theories can be practically applied in planning, implementing, and evaluating public health programs. This course will begin to answer the meta-question as it relates to health behavior: "Why do people do what they do?" Prerequisite: HSM-110.
- PH 302 Global Health** (0)
This course will prepare future health professionals to work in a global market whether it is in their local community or in some faraway land. This course will provide insights in understanding global health issues and the improvement of health at a population level. Prerequisite: HSM-110.

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- PH 389 Special Topics** (0)
- PH 410 Capstone Project** (1)
The Capstone experience will be designed to integrate, synthesize and apply knowledge as developed throughout the student's academic program. Students will be eligible to complete their capstone in their junior or senior year (senior status will be required for the Thesis option). The undergraduate student will have four options for completion of the capstone requirement: internship, study abroad, Honors thesis, or independent study. All capstone experiences will require prior approval from the Chair before work can begin. Prerequisite: junior or senior standing in the major.
- PH 999 Public Health Transfer Elective** (3)
Course transfers in as a public health elective.
- PHI Philosophy**
- PHI 101 Philosophy & the Human Condition** (3)
This course explores divisions of philosophy and the perspectives of major philosophers and movements. Emphasis is placed upon central philosophical problems such as the relationship between mind and body, the possibility of human freedom, the existence of God, and the scope and limits of human understanding.
- PHI 103 Ethics: Religious and Philosophical Perspectives** (3)
This course is an introduction to ethical reasoning, theories of morality, and questions related to the good life. Potential topics of discussion include moral duty, virtue, pleasure, and happiness, the religious ethic of St. Marie-Marguerite d'Youville, and contemporary ethical issues. Topics may be approached from religious/theological or philosophical perspectives. Crosslisted with RS-103
- PHI 201 Ethics in Theory & Action** (3)
This course is an examination of human conduct and responsibility and the relationships between individuals and society.
- PHI 204 Logic & Practical Reasoning** (3)
This course is a study of formal reasoning methods through informal fallacies, class logic and introduction to propositional logic.
- PHI 210 Freedom, Death, and Meaning** (3)
This course explores themes and issues in existentialist philosophy and literature through a reading of primary source texts. Special emphasis is placed on the ideas of freedom, death, and meaning. The course addresses such issues as the nature and meaning of freedom, the role of mortality in human life, and the possibility of meaningfulness and individuality in the modern world. *Prerequisite: PHI-201.*
- PHI 211 Technology and Society** (3)
This course is a philosophical exploration of the nature of technology and the political and social effects of technological change. The course addresses issues relating to the nature of technology and the ethical challenges it poses. Special emphasis is placed on the role and effects of information technologies and computers in modern society. *Prerequisite: PHI-201.*
- PHI 214 Challenges of Death** (3)
This course examines the ways that death challenges human meaning and action. Topics include the meaning of suffering and death, challenges of death to morality, psychological spiritual processes of dying and bereavement are considered.
- PHI 280 Western Ancient Philosophy** (3)
This course explores the birth of Western philosophy in Ancient Greece and Rome through a reading of primary source texts. The course addresses such issues as the reliability of sensory experience, the nature of happiness, and the meaning of justice. Special emphasis is placed on the conceptions of character and virtue in the works of Plato and Aristotle. *Prerequisite: PHI-101 or PHI-201 or Permission of Instructor.*
- PHI 303 Medieval Phil.** (3)
- PHI 305 History of Modern Philosophy I** (3)
This course explores metaphysical and epistemological theories in their relation to a study of the main philosophical controversies in the 16th and 17th centuries. Students read works from Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley and Hume, and are given a background on Kant. *Prerequisite: PHI-201 or at Least Sophomore Status.*
- PHI 306 Social & Political Philosophy** (3)
This course is a study of social and political theories in their relation to philosophical problems; the nature of the social and political institutions and obligations, the basis of knowledge of social and political obligations, the grounds for sound social and political decisions. *Prerequisite: PHI-201 or RS-201.*
- PHI 307 Metaphysics** (3)
This course deals with traditional and contemporary theories of reality and change, being, transcendentals and causality. *Prerequisite: Phi-101.*
- PHI 308 Eastern Philosophy** (3)
This course explores themes and issues in Eastern philosophy and religion through a reading of primary source texts in Hinduism, Buddhism, Confucianism, and Taoism. The course addresses such issues as the nature of the self, the path to enlightenment, and the proper means of moral education. Special emphasis is placed on the importance of compassion and selfless action in the Eastern philosophical and religious traditions.
- PHI 310 History of Modern Philosophy II** (3)
This course explores important themes and issues in philosophy in the 19th Century through a reading of primary source texts. The course addresses such issues as the basic structure of consciousness, the limits of human knowledge, and the possibility of historical progress. Special emphasis is placed on the conception of rational freedom in German Idealism. *Prerequisite: Phi-201 or at least sophomore status..*
- PHI 312 Bioethics Seminar** (3)
This course analyzes ethical dilemmas and problems posed by developments in the biosciences. Problems discussed include choices for life or death, allocation of resources, human experimentation, reproductive technologies and professional-client relationships. *Prerequisite: PHI-201 or PHI/RS-214.*

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- PHI 316 Intermediate Logic** (3)
The course deals with the syntax of propositional calculus and first order quantification theory. *Prerequisite: (PHI-204 or MAT-101) (MAT-117 or MAT-123).*
- PHI 325 Ethical Decision Making in Business** (3)
This is an applied ethics course that examines policy decisions made in business and their ethical implications in society. Emphasis is placed on the theories of ethics and economic justice in relation to decisions made in business. *Prerequisite: PHI-201 or RS-201.*
- PHI 336 Problems in Professional Ethics** (3)
This is an interdisciplinary course that examines how sociopolitical conditions have contributed to the self image and value crisis in the health professions. A variety of problem-solving techniques are studied in order to offer alternative social policies that would reconstruct the identify of the professions. *Prerequisite: Phi-201 or RS-201.*
- PHI 389 Special Topics** (3)
This course examines the human person and personality in its philosophical context as well as the individual and society, alienation and self affirmation.
- PHI 390 Topics in Phil** (3)
This course deals with the development of American philosophical thought from the 17th century to the present.
- PHI 401 Philosophy of Person** (3)
This course explores themes and issues relating to human nature and personhood through a reading of historical and contemporary primary source texts. The course addresses issues relating to the fundamental features of human biology and psychology. Special emphasis is placed on the moral status of the human person and the experience of exploitation and alienation in the contemporary world. *Prerequisite: Prerequisite: PHI-101 or junior/senior status..*
- PHI 402 American Philosophy** (3)
This course deals with the development of American philosophical thought from the 17th century to the present. *Prerequisite: PHI-101 or junior or senior status.*
- PHI 403 Philosophy of Nature** (3)
This course explores historical and contemporary conceptions of nature through a reading of primary source texts. The course addresses issues relating to ancient and modern cosmologies and conceptions of nature and the emerging field of environmental ethics. Special emphasis is placed on ethical issues relating to the exploitation and despoliation of nature and the centrality of humans in the universe. *Prerequisite: PHI-201 and any 300-level philosophy course.*
- PHI 404 Contemporary Thought** (3)
This course traces important trends and movements in contemporary philosophy through a reading of primary source texts. The course addresses issues such as the role of philosophy in relation to modern empirical science, the relationships between experience, thought, and language, and the development of capitalism and mass society in the 20th Century. Special emphasis is placed on the postmodern condition and its effects on our political and ethical self-conceptions. *Prerequisite: PHI-101 or junior/senior status.*
- PHI 410 Philosophy of Religion** (3)
This course analyzes ideas relevant to religious belief through a discussion of these ideas and the philosophical studies deriving from them. *Prerequisite: PHI-101.*
- PHI 411 Mysticism** (3)
This course defines mysticism, the history, theory, phenomena and practices of selected mystical schools and the positive and negative aspects of the mystical experience.
- PHI 423 Philosophy of Art** (3)
This course investigates and assesses the value dimensions of fine art endeavors. These endeavors include but are not limited to theater arts, drawing, painting, photography, architecture, dance and music. It explores the fundamental question of "What is Art?" and analyzes a range of aesthetic works for their instrumental or intrinsic worth.
- PHI 444 Internship** (3)
The philosophy internship is a variable credit (3-12 hours), required course that encourages juniors/seniors to investigate a career through a placement in a professional setting or in development of future projects (graduate study). This allows students to work under the guidance of an immediate supervisor and/ or a college faculty sponsor.
- PHI 450 Senior Research** (3)
This course consists of individualized or small seminar research and reading projects under the instructor's supervision. Students have the option to apply for admission to PHI 600, Philosophical Theories, as a substitute for this requirement.
- PHI 489 Special Topics in Philosophy** (3)
This course is presented in a seminar format. Philosophical problems or a major figure in philosophy are studied and are determined by student and faculty interest.

PHY Physics

- PHY 101 General Physics I** (3)
This calculus-based course is an introduction to the principles of kinematics and dynamics as they apply to both translational and rotational motion. Topics include Newton's laws, forces, friction, gravity, Kepler's laws, dot products and cross products, potential and kinetic energy, and momentum. Considerable attention is paid to the intellectual history that accompanied the emergence of the Newtonian world view. *Prerequisite: MAT-125. Corequisite: PHY-101L.*
- PHY 101L Gen Physics Lab I** (1)

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- PHY 102 General Physics** (3)
This course is a continuation of PHY 101. The course covers statics, fluids, oscillations, sound and waves, temperature and heat, electricity and magnetism, and geometric optics. *Prerequisite: PHY-101. Corequisites: MAT-126 PHY-102L.*
- PHY 102L Gen Physics Lab II** (1)
This course is a physics laboratory to accompany PHY 103. The course includes experiments in mechanics and oscillatory motion.
- PHY 103 Physics for Engineers** (3)
This course is a calculus-based introductory course in physics enriched in material of relevance to computer science, information technology and engineering students, including kinematics, Newtonian mechanics, momentum, energy, rotational motion, statics, materials, fluids and oscillatory motion. *Corequisite: PHY-103L.*
- PHY 103L Physics for Engineers Lab I** (1)
This course is a physics laboratory to accompany Phy 103. The course includes experiments in mechanics and oscillatory motion. *Prerequisite: MAT-125 PHY-103. Corequisite: Mat-125 Phy-103.*
- PHY 104 Physics for Engineers II** (3)
This course is a continuation of PHY 103 and is a calculus-based introductory course in physics enriched in material of relevance to computer science information technology, and engineering students, including: wave motion, thermodynamics, heat transfer electricity, circuits and circuit components, magnetism, electromagnetic radiation and optics. *Prerequisite: PHY-103. Corequisite: PHY-104L.*
- PHY 104L Physics for Engineers II Lab** (1)
This physics laboratory accompanies PHY 104. Experiments in wave motion, thermodynamics, electricity, magnetism and optics are performed *Prerequisite: MAT-125 PHY-103. Corequisite: PHY-104.*
- PHY 111 Introduction to Physics** (3)
This course is designed for health services/PT majors and for other students who wish to use it to fulfill the core requirement in science. The course lecture must be taken prior to, or concurrently with, the corresponding lab. PHY 111 covers kinematics, dynamics, conservation of energy and momentum, and rotational motion. PHY 112 covers statics, fluids, oscillations, sound and waves, temperature and heat, electricity and magnetism, and ray optics. *Prerequisite: MAT-122 or MAT-125.*
- PHY 111L Introduction to Physics Lab** (1)
This course is an introductory astronomy course for students from all majors. Students are introduced to the basics of the telescope, light, the seasons and the tides, the moon, the sun, the solar system, stars, galaxies and the search for extraterrestrial intelligence. Experience involving field use of telescopes and other observational tools is incorporated into the course. Astronomy will satisfy the non-lab core science elective or can also be used as a free elective. If taken in conjunction with the optional PHY 142L, it will also fulfill the core science requirement for a laboratory-based science course.
- PHY 112 Introduction to Physics** (3)
This course is designed for health services/PT majors and for other students who wish to use it to fulfill the core requirement in science. The course lecture must be taken prior to, or concurrently with, the corresponding lab. PHY 111 covers kinematics, dynamics, conservation of energy and momentum, and rotational motion. PHY 112 covers statics, fluids, oscillations, sound and waves, temperature and heat, electricity and magnetism, and ray optics. *Prerequisite: MAT-122 or MAT-125.*
- PHY 112L Introduction to Physics Lab** (1)
This laboratory accompanies the introductory astronomy course. The laboratory work supplements the lectures in PHY 142, focusing on the underlying physics of light, optics, wave motion and planetary motion.
- PHY 142 Introduction to Astronomy** (3)
This course is an introductory astronomy course for students from all majors. Students are introduced to the basics of the telescope, light, the seasons and the tides, the moon, the sun, the solar system, stars, galaxies and the search for extraterrestrial intelligence. Experience involving field use of telescopes and other observational tools is incorporated into the course. Astronomy will satisfy the non-lab core science elective or can also be used as a free elective. If taken in conjunction with the optional PHY 142L, it will also fulfill the core science requirement for a laboratory-based science course.
- PHY 142L Introduction to Astronomy Lab** (1)
This laboratory accompanies the introductory astronomy course. The laboratory work supplements the lectures in Phy 142, focusing on the underlying physics of light, optics, wave motion and planetary motion.
- PHY 145 The Process of Scientific Discovery** (3)
This is an introductory science course where students will be introduced to the major elements of science and technology including the basic insights of chemistry, physics, biology and geology in the context of the social and historical development of technology. Special attention will be paid to the impact of the sciences on cultural and human endeavors, and on the role of social change and serendipity in the process of scientific discovery. This course could count as a non-major science core course, an IDS science elective or as a free elective for science majors. There are no prerequisite course requirements. Course may be offered with an emphasis on the field of biology (BIO 145), chemistry (CHE 145) or physics (PHY 145).
- PHY 149 Robotics** (3)
Prerequisite: MAT-101.
- PHY 151 Physics for Poets** (3)
This introductory physics course for non-science majors aims to survey the West's understanding of the physical universe from its origins in Greek thought to the latest discoveries of the 21st century. Since this covers such a vast area of study, the emphasis will be on breadth rather than depth. However, it is hoped that the student will acquire a comprehensive overview and appreciation for the discipline called physics.

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PHY 389 Special Topics in Physics (3)
This course presents an opportunity to study a selected topic in physics. Topics can originate with faculty or students.

PHY 499 Capstone Experience (1)

PHY 999 Physics Transfer Elective (3)
Course transfers in as a physics core elective.

PHY 999L Physics Lab Transfer Elective (3)
Course transfers in as a physics lab elective.

PPS Pharmaceutical Sciences

PPS 301 Principles of Pharmaceutical Sciences I (2)
Achieving effective treatment of a disease, while minimizing adverse effects of a drug, requires rational selection, formulation and administration of an appropriate dosage form. Drugs are, first and foremost, molecules exhibiting both individual molecular properties, as well as the collective properties of molecules which make up the dose of an administered medication. This course will focus on the basic principles governing molecules, then consider equilibrium and kinetic phenomena and conclude with properties exhibited by dispersed systems such as colloids and dispersions. Information presented in the course will be foundational to subsequent Principles of Pharmaceutical Sciences courses, particularly the Pharmaceutical Dosage Forms course. *Prerequisite:* BIO-101 BIO-101L BIO-102 BIO-102L CHE-101 CHE-101L CHE-102 CHE-102L CHE-219 CHE-219L CHE-220 CHE-220L PHY-101 PHY-101L PHY-112 PHY-112L.

PPS 302 Principles of Pharmaceutical Sciences II (3)
This second course in the Principles of Pharmaceutical Sciences sequence is designed to familiarize students in the BSPS program with general principles of drug action. Topics include an introduction to general terminology, drug-receptor interactions, receptor and ion channels, and second messengers. *Prerequisite:* BIO-101 BIO-101L BIO-102 BIO-102L PPS-301. *Corequisite:* PPS-304 PPS-306.

PPS 304 Pharmaceutical Dosage Forms (3)
The purpose of this course is to provide a foundational knowledge in the concepts of pharmaceuticals that are important for the design and function of pharmaceutical dosage forms. The course complements and completes PPS301, and applies pharmaceuticals to dosage forms ranging from liquid and solid dosage forms to more complex novel and advanced delivery forms such as products of biotechnology. *Prerequisite:* BIO-107 BIO-107L BIO-108 BIO-108L PPS-301. *Corequisite:* PPS-302 PPS-306.

PPS 306 Principles of Pharmaceutical Sciences Practicum (2)
The goal of this course is to introduce undergraduate students to the breadth of techniques used within the laboratories of pharmaceutical scientists. Students will discuss literature pertinent to the faculty member's research, and participate in laboratory activities. Students will complete laboratory safety training, and learn what is involved in planning, conducting and disseminating research. *Prerequisite:* MAT-123 PPS-301. *Corequisite:* PPS-302 PPS-304.

PPS 401 Principles of Pharmaceutical Sciences III (2)
The pharmacokinetics and pharmacodynamics of drugs is due in large part to the chemical nature of drugs as molecules. This course considers the chemical characteristic of molecules that are important to the development and use of drugs. Topics to be considered include functional group characteristics and roles, drug binding and the effect of stereochemistry on drug action. *Prerequisite:* CHE-219 CHE-219L CHE-220 CHE-220L PPS-301 PPS-302. *Corequisite:* PPS-403 PPS-405.

PPS 402 Principles of Pharmaceutical Sciences IV (2)
This course builds upon the Principles of Pharmaceutical Sciences course sequence to describe primary determinants of the disposition of drugs in the body, namely absorption, distribution, metabolism and excretion (ADME). Rudimentary dosing in response to ADME is calculated, and the impact of factors that may alter pharmacokinetics of drugs is presented in the final portion of the course. *Prerequisite:* PPS-301 PPS-302 PPS-401. *Corequisite:* PPS-404 PPS-406.

PPS 403 Drug Discovery and Development (2)
An understanding of the drug development process will be foundational to the career choice of the student earning the undergraduate degree in pharmaceutical sciences. This course will provide the foundational info, as well as introduce the students to scientists who have chosen to work in industry or academia so that they may informally discuss their career choices and experiences with them. *Prerequisite:* PPS-301 PPS-302 PPS-304. *Corequisite:* PPS-401 PPS-405.

PPS 404 Individualized Medicine: Informatics and Pharmacogenomics (2)
This course focuses on two areas of relevance to the pharmaceutical industry that utilize vast amounts of information from populations (informatics) as well as specific information from individuals (pharmacogenomics) to ultimately lead to more effective and personalized utilization of medicines. *Prerequisite:* BIO-101 BIO-102 and one (1) 100 level computer science(CSC)course. *Corequisite:* PPS-402 PPS-406.

PPS 405 Laboratory Research in the Pharmaceutical Sciences I (3)
Critical to students' development as pharmaceutical scientists is the opportunity to conduct research under the guidance of faculty members. Working with the faculty member mutually-selected by the student and faculty advisor, the student is expected to develop a 2-semester hypothesis driven research project, conduct the necessary experiments to address the aims of the research project, and subsequently present the results of the research project in a forum that is open to the members of the department. *Prerequisite:* PPS-301 PPS-302 PPS-304 PPS-306. *Corequisite:* PPS-401 PPS-405.

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PPS 406 Laboratory Research in the Pharmaceutical Sciences II (3)

Critical to students' development as pharmaceutical scientists is the opportunity to conduct research under the guidance of faculty members. Working with the faculty member mutually-selected by the student, the student is expected to develop a 2-semester hypothesis driven research project, conduct the necessary experiments to address the aims of the research project, and subsequently present the results of the research project in a forum that is open to the members of the department. This course will complete the requirements for the project initiated in the fall semester. *Prerequisite: PPS-405. Corequisite: PPS-402 PPS-404.*

PSC Political Science

PSC 201 American Government & Economics (3)

This course is a study of the American political and economic systems including the theories underlying them, political parties, pressure groups, the money system, the credit system and the relations between government and the economy. This course meets the core requirements in political science/economics.

PSC 250 International Relations (3)

This course is a practical study and application of theory and contemporary realities of relations among nations. There is a unit on international procedures and organizations, contemporary foreign policy problems. Students will actively participate in Model United Nations at Harvard University. Students may take this course more than once.

PSC 342 Social & Political Philosophy (3)

This course is a study of social and political theories in their relation to philosophical problems; the nature of the social and political institutions and obligations, the basis of knowledge of social and political obligations, the grounds for sound social and political decisions. *Prerequisite: PHI-201 or RS-201.*

PSC 349 Political Activism (3)

This is a course that gives students a combination of academic knowledge and practical experience in the electoral process, utilizing fieldwork, guided reading and seminar discussion.

PSC 350 International Relations (3)

This course is a practical study and application of theory and contemporary realities of relations among nations. There is a unit on international procedures and organizations, contemporary foreign policy problems. Students will actively participate in Model United Nations at Harvard University. Students may take this course more than once.

PSC 389 Special Topics Study Abroad (3)

This course is a study of social and political theories in their relation to philosophical problems: the nature of the social and political institutions and obligations, the basis of knowledge of social and political obligations, the grounds for sound social and political decisions.

PSC 450 International Relations (3)

This course is a practical study and application of theory and contemporary realities of relations among nations. There is a unit on international procedures and organizations, contemporary foreign policy problems. Students will actively participate in Model United Nations at Harvard University. Students may take this course more than once.

PSC 999 Political Science Core Elective (3)

Course transfers in as a political science core elective.

PSY Psychology

PSY 101 General Psychology (3)

This course is an overall survey of the scientific study of behavior and mental processes. Topics include biology of behavior, sensation and perception, consciousness, learning and memory, intelligence, motivation and emotion, stress and personality.

PSY 102 History of Psychology (3)

This course examines the roots of modern psychological thought. Students will trace these roots from their early origins in philosophy and the natural sciences through the early schools of psychology and on into its current form. In addition to learning about the major schools of psychology, students will explore how cultural and political forces shaped the development of various psychological theories. In addition, students will also examine the lives of the men and women whose works created psychology's foundation. Students will select a person or a classic experiment to research and present to the class. *Prerequisite: PSY101.*

PSY 201 Statistics in Behavioral Sciences (3)

This course provides students with an introduction to statistical and research methods. Various types of research designs and the process of developing a research proposal will be studied along with the statistical techniques for analysis of numerical data. *Prerequisite: PSY-101 or PSY-203.*

PSY 202 Research Methods in Behavioral Sciences (3)

This course is a continuation of Psy 201. Students will complete research projects designed in Psy 201 and develop skills in data analysis and writing research papers. *Prerequisite: PSY-201.*

PSY 203 Developmental Psychology (3)

This course explores milestones of physical, cognitive and psychosocial development from conception through old age. Emphasis is placed on global principles that guide human growth and change across the lifespan. The course meets the core requirement in psychology.

PSY 204 Physiological Psychology (3)

This course examines the physiological basis of behavior through consideration of nervous and endocrine system structure and function followed by a detailed analysis of specific behaviors such as aggression, ingestion, sexual behaviors, sleep, and memory and learning. *Prerequisite: PSY-101 or PSY-203.*

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PSY 205 Social Psychology (3)

This course studies the individual in society, social learning and perception, formation and measurement of attitudes, social norms and roles, public opinion and propaganda. *Prerequisite: PSY-101 or PSY-203.*

PSY 206 Abnormal Psychology (3)

This course scientifically describes and discusses the forms of abnormal behavior guided by the DSM-IV. Specific focus is placed on assessment and diagnosis, etiological factors, treatment possibilities, and predictions of recovery. *Prerequisite: PSY-101 or PSY-203.*

PSY 207 Cognitive Psychology (3)

This course will examine cognitive functioning in humans through a consideration of sensory register, attention, short-term and long-term memory. Topics include encoding, retrieval, comprehension, reasoning and problem-solving and language. *Prerequisite: PSY-101 or PSY-203.*

PSY 208 Personality (3)

This course examines multiple perspectives on the construct of personality. It aims to provide the student with a thorough background in the major theories as well as an ability to integrate and apply the concepts in these theories. To accomplish this, students will engage in case studies as they master the theories within each major perspective. *Prerequisite: PSY-101 or PSY-203.*

PSY 209 Psychology As a Profession I (1)

This first course in the two-semester Psychology as a Profession sequence provides a foundation for students considering a career in psychology or related fields. Students are guided in their own professional development via self-assessments of professional interests, establishment of professional goals and how facets of the psychology curriculum can be tailored to their individual needs. As part of the exploration, students will be acquainted with contemporary and historical issues in the profession of psychology (e.g., professional organizations, licensure requirements) and will be provided with an overview of the many sub-fields and disciplines within psychology.

PSY 210 Psychology as a Profession II (1)

This second course in the two-semester psychology as a profession sequence provides a foundation for students considering a career in psychology or related fields. The emphasis of this seminar is to enable students to become more acquainted with baccalaureate-level career opportunities in psychology as well as professional career opportunities in psychology and related fields. Students will be guided in the process of researching and interviewing professionals within the community. Invited guest speakers from specialized careers within psychology and related fields will supplement lecture presentations of vocational and career opportunities. *Prerequisite: PSY-209.*

PSY 344 Animal Behavior for Psychology (3)

This course is a scientific study of animal behavior. Specifically, students will examine different types of animal behavior, including finding and ingesting food, establishing and maintaining territory, communicating and interacting, and mating and parenting. The approach will be both ecological (focusing on animals in their natural environments) and evolutionary (identifying adaptive functions of current behaviors). While discussion will include a wide variety of animals, the semester will conclude with a specific focus on our closest relatives, monkeys and apes, and the relationships of their behavior to human evolution and behavior. *Prerequisite: PSY-101.*

PSY 353 Social Psychology of Aging (3)

This overview of psychology of aging stresses the social aspects of the aging process. Topics include theories of aging, intellectual, functioning and learning; mental health of aged and organic brain dysfunction; culture and the family and aging; dying and the grief process. This experimental course will include some field observations as well as lectures and discussions. *Prerequisites: PSY-101 or PSY-203 PSY-203.*

PSY 355 Group Dynamics (3)

This course examines in detail the complicated dynamics that emerge in groups of people. An overview is presented of the various types of groups and the effect of the group on the emotion, thought and behavior of the individual. *Prerequisites: PSY-205 PSY-101 or PSY-203.*

PSY 356 Theories of Counseling (3)

This course explores the major theories, basic concepts and techniques of counseling. The student will be expected to demonstrate a working knowledge of the terminology, concepts and counseling applications of the major counseling theories, such as Psychoanalytic, Aldrian, Person-centered, Gestalt, Rational Emotive, Existential and Family Therapy. This course is suggested for students in all areas in which such a need exists in their professional work. *Prerequisites: PSY-206 PSY-101 or PSY-203.*

PSY 357 Sensation and Perception (3)

This course is a review of the visual system, auditory system, somatosensory system and systems for taste and smell. Students will experience the unique features of each sensory and perceptual system through demonstrations and experiments. *Prerequisite: PSY-207.*

PSY 358 Psychology of Human Relations (3)

This course is a study of theories and processes of interpersonal behavior. It is primarily a laboratory for human relationship training and the content is designed to help students understand themselves in order to understand and relate effectively with others. *Prerequisites: PSY-208 Recommended PSY-101 or PSY-203.*

PSY 363 Human Sexuality (3)

This course is designed to provide students with a multidimensional overview of human sexuality and an opportunity to clarify their own sexual value systems. Human sexuality is considered from biological, cultural, psychosocial, developmental, behavioral and clinical perspectives. *Prerequisites: PSY-101 or PSY-203 PSY-203.*

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- PSY 364 Neuropsychology** (3)
This course applies the knowledge gained from Physiological Psychology to an advanced study of human neuropsychology. Students will gain an appreciation of the relationship between the structure and function of the nervous system and qualities of mind and behavior. *Prerequisites: PSY-204 PSY-101 or PSY-203.*
- PSY 365 Forensic Psychology** (3)
This course will provide an introduction and overview to the field of forensic psychology. Attention will be given to the ways in which psychologists, either clinically or empirically, have or can influence the law in terms of issues such as assessment of competency and sanity, legal decision-making, jury composition, police psychology, eyewitness testimony, criminal behavior and profiling, and juvenile and family legal matters. *Prerequisites: PSY-205 PSY-101 or PSY-203.*
- PSY 366 Psychological Assessment** (3)
This course will provide an introduction to and focus on the major characteristics of psychological assessment. Such assessment includes the measurement of human skills and abilities, aptitudes, and aspects of psychological functioning such as personality and psychopathology. The course will be organized in two parts. The first part of the course will provide students with a background in psychometric principles including how to evaluate tests (i.e., reliability, validity, etc) and procedures in test development (e.g., item analysis, construct validation). Issues in effective test administration will also be covered. The latter portion of the course will cover popular means of assessment including interviewing and a survey of the most popular psychological tests. Students will gain some "hands on" experience with these assessment devices through demonstration and self-administration. *Prerequisites: PSY-101 or PSY-203 PSY-201 or MAT-120 or MAT-123.*
- PSY 367 Psychology of Consciousness** (3)
This course examines consciousness "last great mystery of science". Excluded from scientific research for most of the last century, consciousness is now a rapidly expanding area of study in both psychology and neuroscience. This course will discuss all the major theories of consciousness, from those rooted in traditional western philosophy to those coming out of neuroscience, quantum theory, and Eastern philosophy. Students will engage in readings, self-assessments, and practical exercises that will allow students to examine their understanding of their own consciousness. *Prerequisites: PSY-207 PSY-101 or PSY-203.*
- PSY 368 Stress & Adjustment** (3)
This course explores the biology and psychology of the experience of stress. Students will learn from both lecture and self-exploration. This course will provide the opportunity for students to learn and practice traditional and "alternative" stress management skills through individual and group practice. *Prerequisites: PSY-208 Recommended PSY-101 or PSY-203.*
- PSY 369 Psychology of Religion and Spirituality** (3)
This course will focus on understanding the purpose, development and experience of spirituality, religious thought and practice and its' implication for individual and social behavior. Offered as needed. *Prerequisite: PSY-101 or PSY-203.*
- PSY 389 Special Topics Study Abroad** (3)
This course examines the development of emotional and behavioral maladjustment in children and adolescents. Emphasis will be given to theories, assessment strategies, and research methods and findings regarding the etiology and treatment efficacy for disorders including mental retardation, the pervasive developmental disorders (autism), elimination disorders, attention deficit hyperactivity disorder (ADHD) and learning disabilities, conduct disorders, and eating disorders. Psychiatric conditions such as mood disorders, anxiety disorders, schizophrenia, sleep disorders, and emerging personality disorders will also be considered from a developmental perspective. Psychosocial factors (e.g., family violence and abuse) that have been empirically identified in affecting psychological adjustment and research regarding prevention of these emotional and behavioral problems will also be addressed.
- PSY 390 Special Topics Study Abroad** (3)
This course will examine the problem of addiction through a review of terminology, the types and effects of psychoactive substances, and the current theories from human and animal research identifying possible genetic, neuroanatomical, neurochemical and hormonal factors.
- PSY 453 Developmental Psychopathology** (3)
This course examines the development of emotional and behavioral maladjustment in children and adolescents. Emphasis will be given to theories, assessment strategies, and research methods and findings regarding the etiology and treatment efficacy for disorders including mental retardation, the pervasive developmental disorders (autism), elimination disorders, attention deficit hyperactivity disorder (ADHD) and learning disabilities, conduct disorders, and eating disorders. Psychiatric conditions such as mood disorders, anxiety disorders, schizophrenia, sleep disorders and emerging personality disorders will also be considered from a developmental perspective. Psychosocial factors (e.g. family violence and abuse) that have been empirically identified in affecting psychological adjustment and research regarding prevention of these emotional and behavioral problems will also be addressed. *Prerequisite: PSY-203 and PSY-206.*
- PSY 454 Drugs and Behavior** (3)
This course will examine the problem of addiction through a review of terminology, the types and effects of psychoactive substances, and the current theories from human and animal research identifying possible genetic, neuroanatomical, neurochemical and hormonal factors. *Prerequisites: PSY-101 or PSY-203 PSY-204.*
- PSY 455 Multicultural Psychology** (3)
This course will review the history and present status of multicultural psychology with an emphasis on fundamental assumptions, fundamental theories and future directions. Particular emphasis will be directed to understanding American Indian, Asian American, Black American and Hispanic American individuals. *Prerequisites: PSY-205 PSY-101 or PSY-203.*

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PSY 456 Behavior Modifications (3)

This course examines major theories, basic concepts and techniques of behavior modification. The student will develop an understanding of the application of operant conditioning principles, implementation of behavior modification techniques, and assessment and evaluation of program effectiveness. *Prerequisite: PSY-101.*

PSY 457 Learning & Memory (3)

This course is an exploration of questions and topics such as: How do animals (human and non-) acquire, store, and retrieve information? How is new information integrated into existing memory structures? What is forgetting, and how can memory be improved? From the relatively simple mechanisms of conditioning to higher-order cognitive constructs, the class will discuss research findings from a multidisciplinary perspective including basic and applied psychology, neuroscience, physiology and genetics. *Prerequisites: PSY-207 PSY-101 or PSY-203.*

PSY 458 Psychology of Gender (3)

This course is a review of the scientific literature on gender differences and their development. Discussion will include the impact of these differences on an individual's life and in society. *Prerequisites: PSY-208 PSY-101 or PSY-203.*

PSY 463 Special Topics in Dev Psychology (3)

This course is an in-depth consideration of topics in the field of developmental psychology. *Prerequisite: PSY-101 or PSY-203.*

PSY 464 Special Topics Physiological Psychology (3)

This course is an in-depth consideration of topics in the field of physiological psychology. *Prerequisite: PSY-101 or PSY-203.*

PSY 465 Special Topics in Social Psychology (3)

This course is an in-depth consideration of topics in the field of social psychology. *Prerequisite: PSY-101 or PSY-203.*

PSY 466 Special Topics in Abnormal Psychology (3)

This course is an in-depth consideration of topics in the field of abnormal psychology. *Prerequisite: PSY-101 or PSY-203.*

PSY 467 Special Topics in Cognitive Psychology (3)

This course is an in-depth consideration of topics in the field of cognitive psychology. *Prerequisite: PSY-101 or PSY-203.*

PSY 468 Special Topics in Personality (3)

This course is an in-depth consideration of topics in the field of personality psychology. *Prerequisite: PSY-101 or PSY-203.*

PSY 469 Psychology Internship I (4)

The purpose of this course is to allow students the opportunity to gain experience in a psychology-related field setting that is in keeping with their educational and/or vocational goals. It is the intent of the course that students will build upon their knowledge and skills in a research or community internship placement. Thought agreement among the instructor/internship coordinator, the student, and the internship supervisor, the student will participate in an internship(s) for a minimum of 225 hours for the semester (15 hours per week). *Prerequisite: PSY-489 Senior Status in Psychology program required.*

PSY 470 Psychology Internship II (4)

This course will allow students the opportunity to gain experience in a psychology-related field setting wherein they can build upon their learning experiences from their first semester of internship. Students learning may entail continued placement at their first semester of internship (in keeping with their educational or vocational goals) with the intent of advancing their skills and knowledge acquired from the previous semester, or placement in an alternative setting that enables students to develop their knowledge, professional networking, and further evaluate their educational and career goals. Through agreement among the instructor/internship coordinator, the student, and the internship supervisor, the student will participate in an internship(s) for a minimum of 225 hours for the semester (15 hours per week). *Prerequisite: PSY-469. Corequisite: PSY-490.*

PSY 489 Senior Seminar I (2)

This course provides the student with extensive faculty and peer guidance and feedback throughout the psychology internship experience during the senior year. *Corequisite: PSY-469 Senior Status in Psychology program required.*

PSY 490 Senior Seminar II (2)

This course provides the student with extensive faculty and peer guidance and feedback throughout the psychology internship experience during the senior year. *Corequisite: PSY-470.*

PSY 999 Psychology Transfer Elective (3)

Course transfers in as a psychology core elective.

RS Religious Studies**RS 101 Introduction to the Bible (3)**

This course is a study of the sacred literature of the Jewish and Christian religions. Key concepts and great themes of both testaments are studied.

RS 102 Belief & Unbelief in the Brave New World (3)

This introductory course in the phenomenon of religious faith examines the classic examples of the case for and against living in faith, with the view of enabling students to evaluate their own attitudes toward religion. Faith traditions of Western and Eastern cultures provide additional data for this evaluation.

RS 103 Ethics: Religious and Philosophical Perspectives (3)

This course is an introduction to ethical reasoning, theories of morality, and questions related to the good life. Potential topics of discussion include moral duty, virtue, pleasure, and happiness, the religious ethic of St. Marie-Marguerite d'Youville, and contemporary ethical issues. Topics may be approached from religious/theological or philosophical perspectives. Crosslisted with PHI-103

RS 201 Religion & Social Responsibility (3)

The nature and principles of religious ethics in the Judeo-Christian tradition are explored with an emphasis on historical and contemporary attitudes of religion towards social responsibility. Topics for discussion include: sexuality, identity, power, violence, war, racism and medical ethics.

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- RS 202 Life of Christ** (3)
This is a study of the person of Jesus Christ in history and in faith including theories regarding his identity and his role, his impact on society from his day to ours.
- RS 209 Major Western Faiths** (3)
This course surveys the main elements of the history, thought and practice of the major religious traditions of the Western world: judaism, christianity and islam.
- RS 211 Catholicism Today** (3)
This is a systematic study of the foundational beliefs of catholicism; where they came from, how they have changed and how they are interpreted today.
- RS 214 Challenges of Death** (3)
This course examines the ways in which death challenges human meaning and action. Topics such as the meaning of suffering and death, challenges of death to morality, psychological spiritual processes of dying and bereavement are considered.
- RS 309 Letters of Paul to the Early Christians** (3)
This is a study of letter writing in the Hellenistic era and St. Paul's use of this pedagogical technique for addressing religious, social and cultural problems faced by the primitive christian church. St. Paul's response to these issues in the epistles provide a framework for discussion of several major theological themes, including faith and revelation, grace and salvation, and the development of doctrine.
- RS 312 Bioethics Seminar** (3)
Ethical dilemmas and problems posed by developments in the biosciences are analyzed. Problems discussed include choices for life or death, allocation of resources, human experimentation, reproductive technologies, professional client relationships, etc. *Prerequisite: PHI-201 or PHI/RS-214.*
- RS 314 The Message of the Prophets** (3)
This course is designed to introduce the student to the prophetic literature of the Old Testament. The religious importance of the prophetic books will be examined through an investigation of the political cultural and theological milieu of the Middle East from the tenth to the fifth centuries B.C. The course also explores the impact of the prophetic personality in our times regarding questions of social justice, peace and international relations.
- RS 315 Spirituality in Human Experience** (3)
This course explores the history of spirituality in human experience. Traditional and non-traditional expressions will be investigated as will varied applications in life. Offered as needed.
- RS 316 Catholic Social Teaching** (3)
This course provides a historical, theoretical and practical overview of the principles and themes of the Roman Catholic encyclical tradition. It explores views of christian social responsibility through classic texts and contemporary problems.
- RS 351 Religion in American History** (3)
This course will explore the many important issues in American religious history over the past 400 years. Offered as needed.
- RS 369 Psychology of Religion and Spirituality** (3)
This course will focus on understanding the purpose, development and experience of spirituality, religious thought and practice and its implication for individual and social behavior. Offered as needed.
- RS 411 Mysticism** (3)
This course defines mysticism, the history, theory, phenomena and practices of selected mystical school and the positive and negative aspects of the mystical experience.
- RS 412 Special Studies in Religion** (3)
This course explores selected issues of concern to students and faculty in religious studies in seminar format. Topics are announced at the time of registration. Students follow a schedule of readings, discussion and research writing.
- RS 420 Special Topics** (3)
This course examines interactions among individuals and groups within institutions. Attention is paid to the role of the state and the super-state in perpetuating social stratification in both North America and globally, and how unequal power relations organize society and shape identities. The ways in which individuals negotiate their lives in different social and economic contexts are also considered. Fundamental sociological concepts are investigated, such as culture, socialization, stratification, social structure, social institutions, and social interactions. This course meets the core requirements in sociology.
- RS 444 Religious Studies Internship** (3)
Religious Studies majors complete an internship in line with their career aspirations. Internships can take place in a variety of institutional and business settings and are designed to build on and extend classroom learning with practical experience in a setting with a meaningful religious component. Possible placements include organizations that address social justice issues, healthcare, or the environment, and business settings that require religious literacy. Prerequisite: Religion major and permission of instructor; Offered as needed.

SOC Sociology

- SOC 101 Principles of Sociology** (3)
This course examines interactions among individuals and groups within institutions. Attention is paid to the role of the state and the super-state in perpetuating social stratification in both North America and globally, and how unequal power relations organize society and shape identities. The ways in which individuals negotiate their lives in different social and economic contexts are also considered. Fundamental sociological concepts are investigated, such as culture, socialization, stratification, social structure, social institutions, and social interactions.

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- SOC 102 Social Problems** (3)
This course is designed as an introduction to major social problems, and sociological concepts and theories used to understand them. Attention is paid to problems such as inequalities related to social class, race/ethnicity, gender, employment and environmental issues. Focus is also put on social change. Sociologists contend the existence of social problems cannot be understood simply by looking at individual-level behavior. Rather, in order fully to understand society problems and how to solve them, larger structural, cultural, and historical forces are examined. Solutions at the individual, social movement, and policy-making level are considered.
- SOC 203 Social Theory** (3)
The course is a survey of the development of sociological theories since the nineteenth century. How theory influences society and the sociocultural influences which shape theory are also explored. Emphasis is on theory in the late twentieth and twenty-first centuries.
- SOC 211 Our Changing Social World** (3)
This course is designed to help make sense of a rapidly changing world of increasing global interdependence, violence, expanding knowledge and telecommunications, changing values, clashes between religious and secular agendas, transforming family relations and shifting patterns of social inequalities. A number of explanations of social change will be identified and discussed. Special focus is placed on how major social trends influence individuals, intergroup relations and various organizations such as family, work and community. Students will enhance their abilities to plan and shape their own lives in the world around them.
- SOC 214 Cultural Diversity** (3)
The course focuses on the experiences of those from culturally marginalized groups within the larger Western culture. Attention is paid to concepts such as the social construction of race, colonialism/post colonialism, institutional racism, deculturalization, cultural hegemony and forms of resistance. *Prerequisite: SOC-101 or SOC-102.*
- SOC 215 Research Methods in Sociology** (3)
In this course, students are introduced to qualitative methods and the basics of interpreting statistics. Students learn how to analyze and evaluate existing research, construct a research project, conduct focus groups and in-depth interviews, and analyze policy and primary documents. Ethical considerations regarding conducting research and uses of research are discussed. *Prerequisite: SOC-101 or SOC-102.*
- SOC 231 Women, men and Society** (3)
This course is an exploration of the concept of gender, and how gendered forms of meaning making are shaped culturally, internalized and enacted. Attention is also placed on challenges and alternatives to conventional gender prescription, the confluence of gender and power, sexism and homophobia, and the meanings of gender in various religious, ethnic/racial, class and age groups. *Prerequisite: SOC-101 SOC-102.*
- SOC 309 Soc of Disability & Rehabilitation** (3)
The consequences of disability can have an impact at many levels. The effects of disability (personal, interpersonal and cultural) have significant implications for persons with disabilities, rehabilitation workers and the rehabilitation system. This course will analyze the effects of disability within a sociology framework. *Prerequisite: SOC-101 SOC-102.*
- SOC 310 Sociology of Urban Education** (3)
In this course, students analyze core problems facing urban public schools. Issues explored include funding inequities, testing schemes, privatization, high-stakes testing, bilingual education, curriculum control, and the impact of poverty on schooling. Attention is also paid to the experience of students who come from culturally diverse backgrounds, and to immigrant and refugee youth. The possibilities of public schools are investigated throughout this course, as is the potential for reform through the use of critical pedagogy and equitable policy initiatives. *Prerequisite: SOC-101 SOC-102.*
- SOC 311 Sociology of Families** (3)
This course emphasizes the changes in contemporary families, composition of families, expectations of family members, current policies impacting families, and family as a political issue. Consideration is also given to the myths and stereotypes of family life. *Prerequisite: SOC-101 SOC-102.*
- SOC 312 Sociology of Sports and Phys Activity** (3)
This course explores the social and cultural aspects of sport and physical activity. Students will study a range of topics including drug use in sport, equality of opportunity for women and people of color, social patterns and cultural perceptions of sports injury, exercise and preventive health, homophobia, gender and racial discrimination in sport, educational impacts of athletic participation and adolescent health, and violence in sport. Sociological, anthropological and historical perspectives will be used in this course.
- SOC 313 Health Disparities** (3)
This course will explore how socioeconomic status, place, race, and ethnicity affect health disparities; how these characteristics play out in a case study; the implications of these disparities on society as a whole; effective strategies for limiting health disparities; and how local community members are utilizing these strategies to promote positive change.
- SOC 322 Health Illness & Society** (3)
This is a critical survey and analysis of theory and research on health institutions in modern society as well as social etiology of disease, sociological components in treatment, hospital organization and medical practice and sociology of medical education. *Prerequisite: SOC-101 or SOC-102.*
- SOC 323 Sociology of the City** (3)
The course deals with the processes of urbanization and conditions of urban life. Topics include the nature of urban social relationships, organization of city life, urban ecological patterns and demographic conditions and regional influences on metropolitan centers. *Prerequisite: SOC-101 SOC-102.*

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- SOC 342 Sociology of Human Rights** (3)
This course is designed as an investigation of human rights concerns in contemporary society. Attention is paid to human rights abuses experienced by women, men and children in both North America and a global context. Key documents are related to the human rights movement and analyzed as are major debates in their field. 15
- SOC 389 Special Topics** (3)
- SOC 390 Special Topics** (3)
This course is designed to present the study of collective behavior, collective action and social movements. Attention is given to various sociological theories used to explain these behaviors. The focus includes fads and fashion, sports fans, crowds/mobs that form and dissolve quickly, formal organizations and interest groups that spring up in the aftermath of disasters, outbreaks of social protest, and full-blown social movements. Students will consider the particular circumstances which bring about collectivity, the actions taken by the group, media and public response, and the political impact of the behavior.
- SOC 400 Social Epidemiology** (3)
This course focuses on social epidemiology, the factors determining the occurrence and distribution of disease, health defects, disability and death among groups. The interdisciplinary nature of epidemiological theory, statistical measures commonly used, and an analysis of the distribution of health care in the United States are studied.
- SOC 408 Collective Behavior** (3)
This course is designed to present the study of collective behavior, collective action and social movements. Attention is given to various sociological theories used to explain these behaviors. The focus includes fads and fashion, sports fans, crowds/mobs that form and dissolve quickly, formal organizations and interest groups that spring up in the aftermath of disasters, outbreaks of social protest, and full-blown social movements. Students will consider the particular circumstances which bring about collectivity, the actions taken by the group, media and public response, and the political impact of the behavior.
- SOC 410 Senior Project** (3)
The senior project involves a major research paper and is highly recommended for students planning on graduate school in sociology or related field.
- SOC 420 Variable Topics** (3)
This is an in-depth consideration of a special topic, problem or issue in sociology. The course may be taken more than once.
Prerequisite: Soc-101 or Soc-102 or Permission of Instructor.
- SOC 441 Case Study in Urban Sociology** (3)
This course combines on-campus lectures about the geography, history, culture and society of a designated urban center with a one-week service learning experience in that city. Campus lectures will take place in the fall semester and the one week of service learning is held between semesters, in January.
- SOC 444 Internship** (3)
The Sociology internship is a variable credit (3-12 hours), required course that encourages juniors/seniors to investigate a career through a placement in a professional setting or in the development of future projects (graduate study). This allows students to work under the guidance of an immediate supervisor and a college faculty sponsor.
- SOC 479 Independent Study** (3)
Qualified students may investigate selected topics with the permission of the instructor.
- SOC 480 Independent Study** (2)
Qualified students may investigate selected topics with the permission of the instructor. The title will reflect the course content.
- SOC 490 The State & Social Policy** (3)
This course offers a historical and comparative understanding of the rise, developments and challenges faced by nation-states pertaining to the development of social policy (i.e. welfare, healthcare, social security). It focuses on the historically situated struggles social groups over access to and influence over the state, as well as development of state expertise and forms of governing. Students learn quantitative and qualitative measurement techniques, used to script social policy.
Prerequisite: SOC-102.
- SOC 999 Sociology Elective** (3)
Course transfers in as a sociology core elective.
- SPA Spanish**
- SPA 101 Beginner Spanish I** (3)
SPA 101 is designed to introduce true beginners to the Spanish language. The primary focus of the course is to provide you with a basic knowledge of Spanish through the extensive practice of the four fundamental skills in language learning: listening, speaking, reading, and writing. Attention is also given to the fifth language skill- cultural awareness. Through a communicative approach and through the use of the Spanish language, students will learn the fundamental grammatical workings of the Spanish language and apply their knowledge of such concepts in both spoken and written exercises. Integrated throughout the course, are lessons and readings linked to the daily activities and basic aspects of the Hispanic culture, which vary from country to country.

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- SPA 102 Beginner Spanish II** (3)
This course is the second semester of beginner Spanish and the continuation of SPA 101. Before moving forward to the material of SPA 102, the course begins with a review of the salient points of SPA 101. The primary focus of the course is to expand your knowledge of the Spanish language and enable you to acquire an elementary foundation of the Spanish language. There will be extensive practice of the four fundamental skills: speaking, listening, reading, and writing. Increased attention is also given to the fifth skill of cultural awareness. Through a communicative approach and an increased use of the Spanish language, students will learn the fundamental grammatical workings of the Spanish language and apply their knowledge of such concepts in both spoken and written exercises. Integrated throughout the course, are lessons and readings linked to the daily activities and basic aspects of the Hispanic culture, which vary from country to country. *Prerequisite: Spa-101.*
- SPA 103 Transitional Beginner Spanish** (3)
Transitional Elementary Spanish is a beginner level course designed for students with some background in Spanish and/or who have taken Regents' exams, but are not quite ready to enter the intermediate level. In one semester, the course refreshes the students of the fundamental skills of basic Spanish. There will be extensive practice of the four fundamental skills: speaking, listening, reading, and writing. Increased attention is also given to the fifth skill of cultural awareness. Through a communicative approach and the increased use of the Spanish language, students will learn the fundamental grammatical workings of the Spanish language and apply their knowledge of such concepts in both spoken and written exercises.
- SPA 104 Spanish for Heritage Speakers** (3)
This course is designed to teach standard Spanish to students who learned Spanish at home or abroad but have little or no formal instruction in the language. Grammar instruction addresses the specific needs of the heritage-speaker class. The class also introduces simple readings for students who have had limited experience in reading and writing in Spanish. Writing is also stressed through a process-approach. Increased attention is also given to cultural and linguistic variance of the Spanish-speaking world. Through a communicative approach and the increased use of the Spanish language, students will learn the fundamental grammatical workings of the Spanish language and apply their knowledge of such concepts in both spoken and written exercises.
- SPA 121 Hispanic Civilization and Culture in the U.S.** (3)
This course studies the life and culture of major U.S. Latino groups of yesterday and today. The course examines demographic, socio-economic, historical, and cultural aspects of Mexican-American, Cuban, Puerto Rican, Dominican and the cultures of Central American countries such as Colombia and Guatemala, through film, music, literature, and art. The immigrant experience is also a particular focus of the course, including the origins of Hispanic immigration to the U.S. and more recent policies surrounding non documented citizens. While the majority of the course readings are in English, attention is also given to Spanish language skills, reading, composition and conversation. *Prerequisite: SPA-102 SPA-103 or SPA-104.*
- SPA 132 Latin American Civilization and Culture** (3)
This course is an introduction to the history and cultures from present to pre-Columbian times of the nations that compose the Latin American continent today. Throughout the semester, we will explore the politics, social structures, traditions, artistic movements and history that frame Latin America. Topics will include the main pre-Columbian civilizations, the age of the Spanish colonization and conquest, the start of new nationalities in the 19th century, and the projection of them in the present and last century with relation to the United States, Spain and the emerging globalized world. *Prerequisite: SPA-102 SPA-103 or SPA-104.*
- SPA 141 Span Civilization & Culture** (3)
This course, with a critical approach in mind, explores the cultural development of modern Spain from its earliest civilizations to the present day through a variety of cultural examples such as art, literature, film, architecture, and political propaganda. Topics will range from the early cultural life of the peninsula to the expulsion of Moslems and Jews, from Spain's overseas empire to its end in 1898, from the Spanish Civil War and the Franco dictatorship to the first democratic elections of the 1970's. Students will also explore the legacies of the past histories and cultural movements in Spanish life today.
- SPA 152 Spanish for the Business Professions** (3)
SPA 152 is an advanced beginner-intermediate level course designed to introduce students to a more specialized vocabulary linked to the different business and finance professions and build awareness of the many cultural topics specific to the Hispanic population. The course aims to provide students with an intermediate level proficiency in both the written and oral forms of the Spanish language and the necessary communicative skills to better serve their future Spanish-speaking clients. In class, students will practice the four fundamental skills of language learning: listening, speaking, reading and writing. A lot of attention is also given to the fifth skill -cultural awareness. Through a communicative approach, students will review the fundamental grammatical workings of the Spanish language and apply your knowledge of such concepts in both written and spoken exercises. *Prerequisite: SPA-102 SPA-103 or SPA-104.*
- SPA 153 Spanish for Health Professions I** (3)
SPA 153 is an advanced beginner-intermediate level course designed to introduce students to a more specialized vocabulary linked to the different health professions and build awareness of the many cultural and health topics specific to the Hispanic population. The course aims to provide students with an intermediate level proficiency in both the written and oral forms of the Spanish language and the necessary communicative skills to better serve their future Spanish-speaking clients or patients. In class, students will practice the four fundamental skills of language learning: listening, speaking, reading and writing. A lot of attention is also given to the fifth skill-cultural awareness. Through a communicative approach, students will review the fundamental grammatical workings of the Spanish language and apply your knowledge of such concepts in both written and spoken exercises. *Prerequisite: SPA-102 SPA-103 or SPA-104.*

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SPA 154 Spanish for Health Professions (3)
This course is a continuation of SPA 153. *Prerequisite: SPA-153 or permission of instructor.*

SPA 201 Intermediate Spanish I (3)
Spanish 201 is an intermediate-level integrated skills language course that will expand on the language skills mastered in Spanish 101 and 102 or SPA 103, or SPA 104. The course begins with a quick review of the salient points of beginner Spanish before it introduces you to the intermediate level material. This course will enhance your proficiency in the Spanish language and acquire an intermediate-level foundation in the Spanish language. There will be extensive practice of the four fundamental skills: listening, speaking, reading, and writing, as well as extensive instruction on culture. Through a communicative approach and the exclusive use of Spanish, students will learn more complex grammatical structures of the Spanish language and apply their knowledge of such concepts in both spoken and written exercises. Integrated throughout the course, are lessons and readings linked to the daily activities and basic aspects of the Hispanic culture, which vary from country to country. *Prerequisite: SPA-102 SPA-103 or SPA-104.*

SPA 202 Intermediate Spanish II (3)
Spanish 202 is an intermediate-level integrated skills language course and continuation of SPA 201. This course furthers a student's proficiency in the Spanish language and acquisition of an intermediate-level foundation in the Spanish language. There will be extensive practice of the four fundamental skills: listening, speaking, reading, and writing, as well as extensive instruction on culture within the context of myths and legends of the Hispanic world. Through a communicative approach and the exclusive use of Spanish, students will learn increasingly more complex grammatical structures of the Spanish language and apply their knowledge of such concepts in both spoken and written exercises. Integrated throughout the course, are lessons and readings linked to the daily activities and basic aspects of the Hispanic culture, which vary from country to country. *Prerequisite: SPA-201.*

SPA 211 Conversation and Composition I (3)
SPA 211 is an intermediate-advanced level course that offers extensive practice of the oral and written communication of the Spanish language, and prepares students for more advanced courses in Spanish. A key component of the course is treating the communication of language as a process. Students will not only practice the different stages of writing (pre-writing, writing and revising) in draft workshops, but also compare these stages with those linked to the overall delivery and presentation of language in its oral form. The class also explores descriptive, narrative and expository forms of communication through class readings, audio clips, and lectures, and their respective assignments. A portion of the class time will also be dedicated to grammar instruction that reviews and expands on the student's already established knowledge of grammar. *Prerequisite: SPA-202 or permission of instructor.*

SPA 212 Spanish Conversation and Composition II (3)
This course offers extensive practice of the oral and written communication of the Spanish language and expands on the skills learned in SPA 211. A key component of the course is treating the communication of language as a process. Students will not only practice the different stages of writing (pre-writing, writing and revising) in draft workshops, but also compare these stages with those linked to the overall delivery and presentation of language in its oral form. SPA 212 explores expository and argumentative forms of communication through class readings, audio clips, lectures, and their respective assignments. A portion of class time will also be dedicated to grammar instruction that reviews and expands on the student's already established knowledge of grammar. *Prerequisite: SPA-211.*

SPA 213 Int Spanish, Latin Amer & Us Hispanic Lit (3)
This course introduces students to the literature of Spain Latin America and more recently that of Hispanic-US writers. The main purpose of the course is to give students an overview of the major literary movements in the respective Spanish-speaking regions of the world in order to prepare them for more advanced courses in Hispanic literature. Students will explore different literary genres such as poetry, theater, the essay, the short story and other forms of prose writing. Class times will also be dedicated to lectures and workshops that focus on the process of writing and composing literary analyses. A portion of class time will also be dedicated to grammar instruction that reviews and expands on the student's already established knowledge of grammar. *Prerequisite: SPA-211 or permission of the instructor.*

SPA 222 Conv Contemp Hispanic US Culture (3)
This course explores Hispanic-U.S. culture through a variety of contemporary topics. The course explores such topics and themes through art, music, literature, and film, media and language, festivals and pageantry, and sports and entertainment. SPA 222 also dedicates a portion of the class to discussion of language and the presence of the Hispanic culture and life in the media. Throughout the course, students will have ample opportunities to practice and develop conversational skills as well as further develop critical thinking in the form of regular written assignments and independent research.

SPA 223 Varieties of Spanish in the U.S. (3)
This course explores the complex and interesting situation of Spanish in the U.S. We will examine the phonological, morphological, lexical and syntactic characteristics of the many varieties of Spanish in the U.S. as well as recognize the social and historical factors that affect them. Other topics include U.S. bilingualism, heritage speakers, language attrition, bilingual education systems, and linguistic ideologies and prejudices. *Prerequisite: SPA-102 SPA-103 or SPA-104.*

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- SPA 224 Hispanic-US Literature** (3)
This course studies the short stories, novels and poetry of Hispanic-U.S. writers of the 20th-21st centuries. The course studies the defining characteristics of Hispanic-U.S. literature through the novels, short stories, and poetry of Sandra Cisneros, Julia Alvarez, Justin Torres, Olga Karman, Patricia Engel, and Richard Blanco. Class discussions and lectures will concentrate on careful analyses of these texts, their critical and cultural contexts, and the intersections of contemporary issues relating to the Hispanic-U.S. populations of today. *Prerequisite: SPA-102, SPA-103, or SPA-104.*
- SPA 233 Conv Contemp Latin American Culture** (3)
This course explores Latin American culture through a variety of contemporary topics. The course explores such topics and themes through art, music, literature, and film, media and language, festivals and pageantry, and sports and entertainment. Throughout the course, students will have ample opportunities to practice and develop conversational skills as well as further develop critical thinking in the form of regular written assignments and independent research. *Prerequisite: SPA-201.*
- SPA 234 Var Spa & Other Lang in Latin America** (3)
This course surveys varieties of Spanish as well as other languages in Latin America while exploring both their historical and modern cultural, political and socio-economics status. This course also explores issues of language policy, language survival and revitalization and the relationship between language and cultural identity.
- SPA 242 Conversation in Contemp Spanish Culture** (3)
This course explores contemporary issues in Spain, such as the post-Franco youth culture of the 80's and 90's, autonomous regions and Basque and Catalan separatisms, immigration, the customs and fashions of the Spanish youth, membership in the European Union, terrorism, the media, and popular forms of entertainment. Throughout the course, students will have ample opportunities to practice and develop conversational skills as well as further develop critical thinking in the form of regular written assignments and independent research.
- SPA 243 Language in Spain** (3)
This course surveys major and minor languages in Spain while exploring both their historical and modern cultural, political and socio-economic status. This course also explores issues of language policy, language survival and revitalization and the relationship between language and cultural identity.
- SPA 255 Conv. In Hlth, business Other Professions** (3)
This course prepares students to communicate with future Spanish speaking patients or clients in health, business and other professions such as education, social services, and law. Throughout the course, students will have ample opportunities to practice and develop conversational skills as well as further develop critical thinking in the form of regular written assignments and independent research. Culture is also a major component of the course and accompanies most class discussions and assignments.
- SPA 261 Introduction to Spanish Linguistics** (3)
This course introduces the fundamentals of Spanish phonology, morphology, syntax, and historical and dialectal variation. Through numerous class activities, students will engage in linguistics practices such as writing phonemically, distinguishing morphemes within words, map syntactic structures within phrases, trace sound changes from Latin to Spanish as well as reconstruct Latin roots from Modern Spanish words, and understand lexical, morphological and phonetic differences in various dialects of Spanish.
- SPA 262 Spanish Phonology** (3)
This course introduces the sound system of Spanish. Topics include the human articulatory system, the classification of consonants and vowels, phonetic transcription, accent and pitch, and dialectal phonetic variation. Students will gain an understanding of various dialects of Spanish as well as apply that knowledge to improve their own pronunciation of Spanish.
- SPA 335 Magical Realism in Latin America** (3)
This course explores the genre of magical realism, in which "irreducible elements" of magic are included in otherwise realistic narratives, in Latin America. The course studies the defining characteristics of magical realist writing through the novels and short stories of the "boom" authors such as but not limited to Gabriel Garcia Marquez, Carlos Fuentes, Juan Rulfo, Alejo Carpentier, Isabel Allende, Julio Cortazar, and Jorge Luis Borges. Class discussions and lectures will concentrate on careful analyses of these texts, their critical and cultural contexts, and intersections of contemporary culture and society.
- SPA 344 Modern Spanish Stage** (3)
This course studies the major movements in Spanish theater of the twentieth century. The course begins with a selection of avant-garde productions in Spanish theater during the periods leading up to the Civil War, moves through "posibilismo," or what was deemed possible under the restraints of cultural censorship in Francoist Spain, and ends with the theater of the 1980s and 90s post-Franco. Students will also explore works by Catalanian playwrights and works by women authors on gender issues. Basic theories of performance and screen clips of staged productions will also accompany class discussions. Authors include but are not limited to: Federico Garcia Lorca, Alejandro Casona, Max Aub, Antonio Buero Vallejo, Sergi Belbel, Lluïsa Cunille, Ana Diosdado, and Paloma Pedrero.
- SPA 363 Advanced Spanish Grammar** (3)
This course builds on students' understanding of the grammar of the Spanish language, focusing on the grammatical points that are most problematic for second language learners of Spanish. Class activities will include both oral and written practice of structures such as *ser* and *estar*, the preterit and imperfect, the subjunctive, and clitic pronouns, among others.

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SPA 364 Translation Studies & Workshop (3)

This course explores the theory and practice of translation both from Spanish to English and from English to Spanish. The primary goal is to improve students' writing skills and language fluency through weekly translation exercises. A second main goal is to strengthen interpretive skills and refine interdisciplinary thinking. Translations will cover various genres including short literary texts, newspaper articles, advertisements and technical language from official forms, among others.

SPA 389 Special Topics Study Abroad (3)

Qualified students may investigate selected topics with permission and under supervision of the instructor. Meeting times will be arranged between faculty member and student.

SPA 400 Spanish Internship (3)

This course gives students the opportunity to gain more exposure to and practice of the Spanish language and Hispanic culture in a professional setting that is in keeping with their own educational and vocational goals. Students will apply their skills in the written and oral forms of communication in a research or community internship placement that might include local nonprofit organizations, health clinics, or art galleries. Through agreement among the instructor/internship coordinator, the student, and the internship supervisor, the student will participate in an internship(s) for a minimum of 150 hours for the semester (approximately 10 hours per week). *Prerequisite: Permission of the instructor.*

SPA 410 Spanish Senior Seminar (2)

SPA 410 is a Spanish senior seminar designed for students to reflect upon and integrate issues of culture, civilization, language and literatures of the Spanish-speaking world. Through a research project on a topic of linguistic, cultural or literary focus, students will synthesize previous course work and study abroad / internship experience as well as establish career goals and professionalism in the field of Hispanic language and culture. Completion of a research portfolio and summative evaluation of language skills will be required. *Prerequisite: Permission of the instructor.*

SPA 999 Spanish Transfer Elective (3)

Course transfers in as a Spanish core elective.

SPE Speech

SPE 201 Public Speaking (3)

This is an introduction to speaking before groups and includes techniques of speech preparation and delivery, adapting to the purpose of the speaking situation, and practice in various types of oral presentation in a comfortable workshop atmosphere.

THE Theater

THE 104 Theater Production (3)

This course acquaints students with theater history and the elements of theater (the roles of the playwright, director, producer, actor, scenic-lighting, sound and costume designers) as well as key developments, periods, playhouses and figures of influence in theater's evolution.

THE 202 Introduction to Acting (3)

This course will introduce students to the fundamentals of character development through work on short scenes from major plays. A review of various theories of acting from Stanislavski and Uta Hagen to the Meisner approach to acting, will dovetail the development of a living character on stage with script analysis.

THE 389 Special Topics Study Abroad (3)

THE 444 Theatre As Outreach (3)

A practical workshop aimed at equipping students from all disciplines in the use of theater-based techniques in schools, community or non-theatrical environments (hospitals, therapeutic settings, youth centers, business retreats, etc.)

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