

Undergraduate Catalog

2009-2010

Appendix

Undergraduate Catalog 2009-2010 Appendix

Contents:

- A. Guide to the Reader - 1

- B. Academic Policy Changes – pages 2-6
 - 1. Academic Honors - 2
 - 2. Academic Standards Review (Academic Good Standing only) - 2
 - 3. Adding, Dropping, and Resigning Courses - 2
 - 4. Matriculated and Non-Matriculated (Non-Degree Seeking) Students - 3
 - 5. Mid-Semester Review - 4
 - 6. Repeat Policy (Priority Registration/Course Enrollment Control Policy only) - 4
 - 7. Satisfactory Academic Progress (SAP) – Federal Financial Aid Requirements - 4
 - 8. State Aid (TAP) Requirements (State Aid & Repeated Courses sections only) - 5
 - 9. Visiting Student Program - 6

- C. Academic Program Changes – pages 7-10
 - 1. Accounting, B.S. - 7
 - 2. Aerospace Engineering, B.S. - 7
 - 3. Biological Sciences, B.S. - 7
 - 4. Biological Sciences, B.A. - 7
 - 5. Biological Sciences, B.A./M.S. - 8
 - 6. Biological Sciences, B.S./D.D.S. - 8
 - 7. Biomedical Sciences, B.S. - 8
 - 8. Biophysics, B.S. - 8
 - 9. Business Administration, B.S. - 8
 - 10. English, B.A. - 9
 - 11. Exercise Science and Epidemiology, B.S./M.P.H. (New Degree) - 9
 - 12. Informatics, B.S. - 9
 - 13. Mathematics, B.S. - 9
 - 14. Mathematics, B.A. - 9
 - 15. Nuclear Medicine Technology, B.S. - 9
 - 16. Philosophy, B.A. - 9
 - 17. Philosophy, Minors - 10
 - 18. Political Science, B.A. - 10
 - 19. Political Science, Minor - 10
 - 20. Social Sciences Interdisciplinary, B.A. - 10

Guide to the Reader:

This appendix is valid for the 2009-2010 Academic Year.

Only portions of policies and degrees that contain significant changes are re-printed here. For example, entire degree charts and policies are not reproduced – instead, we have selected the relevant portion of the policy or degree chart (i.e. *Acceptance Criteria* or *Required Courses*) that actually reflects the substantive changes. Other areas of degree charts that are not re-printed have not substantially changed. However, please be advised that minor changes may have been made (i.e. course title edits) to areas of the degree charts that are not included in this appendix.

This appendix does not include non-policy, or non-binding changes (i.e. updated faculty lists, contact information, etc.). These changes have been made to the online Undergraduate Catalog; however, in the interest of creating a concise appendix, only changes of substantive import are included. For details on these non-policy changes, please see the relevant section of the online Undergraduate Catalog.

Changes to academic programs are highlighted in yellow. These are generally additions and removals of course requirements. For example, the *Required Courses* section of the Aerospace Engineering BS degree chart contains the following changes:

1. MAE 278 replaces MAE 277
2. The science elective is no longer required.

These changes are reflected as:

Required Courses

CHE 107 General Chemistry for Engineers

EAS 140 Engineering Solutions

EAS 207 Statics

EAS 208 Dynamics

EAS 209 Mechanics of Solids

EAS 230 Higher Level Language

EE 200 EE Concepts/Nonmajors

MAE 177 Introduction to Engineering Drawing and CAD

MAE 204 Thermodynamics

MAE 278 Introduction to Aerospace Engineering Practice (replaces MAE 277)

MAE 334 Introduction to Instrumentation and Computers

[MAE 335](#) Fluid Mechanics

[MAE 336](#) Heat Transfer

[MAE 338](#) Fluid and Heat Transfer Laboratory

[MAE 340](#) Systems Analysis

[MAE 376](#) Numerical Methods

[MAE 377](#) Product Design in a CAD Environment

[MAE 381](#) Engineering Materials

[MAE 385](#) Engineering Materials Laboratory

[MAE 415](#) Analysis of Structures

[MAE 416](#) Aerospace Structures

[MAE 422](#) Gas Dynamics

[MAE 423](#) Introduction to Propulsion

[MAE 424](#) Aerodynamics

[MAE 425](#) Spacecraft Dynamics and Control

[MAE 434](#) Aircraft Design

[MAE 436](#) Flight Dynamics

[MAE 451](#) Design Process and Methods

[MTH 141](#) College Calculus I

[MTH 142](#) College Calculus II

[MTH 241](#) College Calculus III

[MTH 306](#) Introduction to Differential Equations

[PHY 107](#) General Physics I

[PHY 108/PHY 158](#) General Physics II/Lab

One technical elective

(Removed Science Elective)

Changes to academic policies are noted in-text. Deletions are striked, and additions are in red font.

Please note that only significant policy changes are included in this appendix. This excludes stylistic changes, and changes that can be expected year-to-year (i.e., deadlines, cost of attendance, etc.)

Academic Policy Changes

Academic Honors

Latin Honors

Students earning baccalaureate degrees are eligible to receive Latin honors based on their ~~overall~~ UB cumulative GPA (~~whichever is lower~~) on the following scale:

Average (based on 4.0 = A)

3.20 cum laude

3.50 magna cum laude

3.75 summa cum laude

To qualify for Latin honors, students must present a minimum of ~~90~~60 credit hours of graded UB undergraduate coursework with a minimum of 30 credit hours completed at UB. Transfer work is included in determining the final overall grade point average, at least 54 of which must be graded credits (i.e., not satisfactory or unsatisfactory [grades of 'S' or 'U']).

Departmental Program Honors

Each department has the prerogative of awarding the designations “~~with highest distinction,~~” “~~with high distinction,~~ honors” and “with distinction” to students who achieve a certain level of academic excellence and creativity in the major or minor program.

The award of Program Distinction is based on the UB GPA for the program. A minimum of 50% of credits for the major or minor program must be completed at UB. Although departments may set higher GPA minimums, the University requires a minimum of 3.20 for “with distinction”; 3.50 for “with high distinction”; and 3.75 for “with highest distinction.”

The award of Program Honors is based on criteria which may vary from department to department. Students must complete an honors thesis, project, or honors program seminar. A minimum of 50% of credits for the major or minor program must be completed at UB. Enrollment in a departmental honors program may be a prerequisite. Honors level (“with honors”; “with high honors;” “with highest honors”) may be based on GPA or faculty review of performance on the honors components of the program. Students should consult with their departmental advisor regarding the awarding of departmental honors.

Academic Standards Review

To maintain academic standards and determine eligibility for continued enrollment, financial aid, and participation in university activities, the University at Buffalo regularly reviews the academic records of all undergraduate students. This review addresses the quality of the student’s studies as measured by the student’s course grades.

Academic Good Standing

A student is in academic good standing if the student’s cumulative UB grade point average (GPA) is 2.0 or greater and ~~one of~~ the student’s most recent two consecutive semester GPAs at UB is 2.0 or greater. A student in academic good standing is eligible for all university activities.

Adding, Dropping, and Resigning Courses

Students may register for courses and make changes to their class schedule at any time between the start of their registration window through the end of the second week of classes. Courses dropped during this period will not appear on the students’ transcripts.

Students modifying their course loads through the second week of classes should speak with Student Academic Records and Financial Services regarding financial responsibility and possible changes to financial aid eligibility. For information about withdrawing from courses after the second week of classes, see [Resignation from Coursework at the University](#).

Students who drop all courses during the second week of classes will not receive grades for such courses but will be responsible for a financial penalty.

Students who choose to resign from all courses after the second week of classes will be responsible for a financial penalty and receive a grade of "R" for each course resigned until the end of the resignation period. When resigning from a course, students should determine if the course is impacted. Impacted courses cannot be repeated during the fall or spring semesters¹. (See Priority Registration for Students Attempting a Course for the First Time.)

Students can resign from courses using BIRD or via MyUB up until the end of the eleventh week of classes.

Students are not permitted to sit in a class without proper registration. Students who are officially auditing a class cannot have the audit grade option converted to a letter grade option retroactively nor are students permitted to register for a class after the end of the second week of classes.

Matriculated and Non-Matriculated (Non-Degree Seeking) Students

A matriculated student is one who has applied and has been officially accepted to the university through an undergraduate admission process and is considered to be pursuing a degree.

A non-matriculated student is one who is enrolled on a semester-by-semester or course-by-course basis and has not been accepted as a regular student pursuing a degree.

The following rules apply to non-matriculated students at UB:

A non-matriculated student shall present a high school diploma or general education development [GED] certificate prior to enrolling in any academic year course.

A non-matriculated student shall attain and maintain at least a 2.0 UB grade point average after attempting nine or more undergraduate credit hours. At most three courses taken on a satisfactory-unsatisfactory basis (grades of 'S' or 'U') shall have grades of 'U'.

A non-matriculated student may enroll for a maximum number of credits as follows:

<u>Semester/Time Period</u>	<u>Maximum number of credits</u>
<u>Fall or Spring</u>	<u>9</u>
<u>6-week summer session</u>	<u>6</u>
<u>12-week summer session</u>	<u>12</u>
<u>Summer session (Total of both 6-week and 12-week sessions)</u>	<u>12</u>
<u>Total credits allowed as a non-matriculated student</u>	<u>30</u>

¹ This policy is expected to be effective Fall 2009, pending Presidential and Provostal promulgation.

A non-matriculated student may register for Fall or Spring semester courses on a space available basis beginning August 1st for Fall semesters and December 1st for Spring semesters.

A non-matriculated student may apply for admission to UB baccalaureate study. In that case, he or she shall have the UB courses taken in non-matriculated status included in the assessment for admission on the same basis as if he or she were a transfer applicant. If the student is admitted to baccalaureate study, all UB courses taken in non-matriculated status shall be included in the student's program and considered UB courses for purposes of credits attempted and completed and grade point average.

Additional criteria may be required for international students. International students should contact the International Admissions Office.

Mid-Semester Review

~~Students who are new to UB are often unaware of the academic norms of their new environment and their standing with respect to those norms.~~ Students identified for the Mid-Semester Review process include all new first semester students (freshmen and transfer), Athlete students, Educational Opportunity Program (EOP) students, and all students on Academic Probation. To help these students achieve academic success, ~~instructors of first semester students~~ are asked to provide mid-semester evaluations using indicator codes for students' coursework. Indicator codes are: Satisfactory (S), Unsatisfactory (U), or progress not yet available (I). Mid-Semester progress reports received from faculty are transmitted to students and to students' advisors. Students are encouraged to promptly follow up with their instructors and advisors where performance is less than satisfactory.

Repeat Policy

Priority Registration for Students Attempting a Course for the First Time (Course Enrollment Control Policy)²

Academic units may designate a course as a limited position (or impacted) course. An impacted course is one whose enrollment is limited by available student positions for lectures or associated sections, laboratories, other specialized facilities, internships, etc.

For such courses, the academic unit offering the course may limit or prohibit repeat enrollment in the fall and/or spring semester. Repeat enrollment is defined as: Student previously enrolled in the course at UB or transferred in an equivalent course with a grade of 'A', 'B', 'C', 'D' and qualified values thereof, e.g., 'A-', 'D+'; 'F', 'P', 'S', 'U', 'I', 'J', 'N', or 'R'. Limiting repeat enrollment gives priority to students who are registering for the course for the first time. Once a course is designated as limited enrollment, this information must be included in the course description (in the catalog and course schedule) and in the syllabus. An explicit statement that repeat enrollment may be difficult or cancelled must be included.

Satisfactory Academic Progress (SAP)

Eligibility for Federal Financial Aid

Financial aid is contingent upon continued satisfactory academic progress. Each spring, a review of financial aid eligibility is conducted. Students are notified of their eligibility status via e-mail ~~and may appeal these decisions.~~

Criteria—Performance, Progress, and Maximum Time Frame

An undergraduate student is eligible for federal financial aid if the student is (1) in academic good standing as measured by the cumulative and semester GPA, and (2) is progressing toward the baccalaureate degree as measured by cumulative completed credit hours ~~per semester~~ percentage according to the university's Federal Satisfactory Academic Progress standards. (3) Students must also complete their first bachelor's degree within 150 percent of the normal number of credits required to complete a bachelor's degree, not exceeding 180 credit hours.

² This policy is expected to be effective Fall 2009, pending Presidential and Provostal promulgation.

Academic Performance

A student in good academic standing, or who is on academic probation, is eligible to receive federal financial aid if s/he meets the minimum GPA. Federal regulations require a student to have a GPA consistent with the university's graduation requirement. A student—either full-time or part-time—who fails to achieve the minimum cumulative GPA of 2.0 in all courses is placed on academic probation after the second semester of study. A student placed on academic probation is expected to raise his/her cumulative GPA to a minimum of 2.0 within a reasonable amount of time. If a student fails to raise his/her cumulative GPA to 2.0 or above, the student will be dismissed. Dismissed students are ineligible to receive federal financial aid. If a student is dismissed and re-admitted on probation, the student should consult with a financial aid advisor to determine eligibility for federal financial aid.

Academic Progress — Full-time Students

A full-time An undergraduate student must demonstrate progress by accumulating academic credits at a rate that indicates graduation in a timely manner. A full-time student who is not progressing toward graduation at the defined rate will not receive federal aid regardless of his/her GPA. The federal aid progress criteria for a full-time student at the university are comparable to the credits earned criteria for New York State aid, but extend to a five-year period of time as noted below. A student must complete at least 70 percent of all cumulative hours attempted in order to be eligible for federal financial aid. The hours included in the percentage of completed courses calculation include all course work attempted (whether or not financial aid was received); all transfer credit hours and advanced placement courses accepted for credit.

Academic Progress — Part-time Students

Academic progress for part-time students who receive federal aid is defined as completion of credits earned according to the Part-Time Chart. Cumulative completed credits are not a measure of progress for a part-time student. Semester credits earned are the sole measure of progress.

Part-Time Satisfactory Academic Progress Chart for Federal Financial Aid	
Credit Hours Registered	Credit Hours Earned
11.9—6.0	50% must be completed
5.9—3.0	3 credit hours must be completed

Time Limits for Federal Aid Eligibility — Maximum Time Frame

Students must complete their first baccalaureate degree within 150 percent of the normal time required to complete a bachelor's degree, not to exceed 180 credit hours. A student's eligibility for financial aid will be terminated when the student has attempted 180 credit hours.

State Aid (TAP) Requirements

To be eligible to receive a New York State Tuition Assistance Program (TAP) award, students must be full-time*, matriculating New York State residents making satisfactory academic progress and not in violation of Program Pursuit (see below).

*Part-time TAP is available to eligible students; please visit www.HESC.org to view the eligibility requirements.

Once junior status is reached (normally the fifth semester of study or 60 credit hours or more earned), students must have a declared major on file. After receiving four TAP payments, students must have a minimum combined GPA of 2.0.

Repeated Courses

Repeated courses in which the student had already received a passing grade cannot be included to meet full-time study requirements for state-sponsored financial aid (TAP). Repeated courses may* be counted toward full-time

study requirements ~~if~~ the first time a student repeats a failed course, if a student repeats the course for additional credit, or when a student has received a grade that is passing at the institution but is unacceptable in a particular curriculum.

*Repeated courses are not counted for accelerated study semesters (summer).

Visiting Student Program

Students enrolled at other institutions may apply to study at UB as visiting students for up to one full year without formal transfer. With approval from their home campus, students receive full credit for approved courses completed at UB. Information about applying and admission criteria may be obtained from the [Office of Admissions](#).

The following rules apply to Visiting Students at UB:

The student shall apply for admission as a visitor, specify the courses or program he or she intends to pursue, submit a transcript evidencing the previous study and a statement of approved academic leave from the previous study, and have a grade point average for that previous study comparable to that required by Undergraduate Admissions of incoming transfer students.

The student may upon acceptance enroll at UB for two academic year semesters and their immediately preceding or following summer sessions under the same conditions as a matriculated student.

A visiting student may apply for admission to UB baccalaureate study. Upon acceptance, the student's UB courses shall be included in her or his program and considered UB courses for purposes of credits attempted and completed and grade point average.

Academic Program Changes

Accounting - B.S.

Acceptance Criteria for the Accounting Major

Admission to the junior year in accounting is fall semester only. Students may apply for admission to the School of Management when they enter the university as freshmen, transfer students, or later in their academic careers. To remain in the Accounting major and to be permitted to take restricted upper-level (300/400 level) School of Management courses, students must satisfy the following requirements:

1. Successful completion of the seven management foundation courses with a **minimum cumulative GPA of 3.0** in the seven courses. If a course is repeated, the grade that is counted is the grade earned the second time, even if the grade is lower than the grade earned the first time.
2. **Minimum overall and UB GPA of 3.0** to be considered in academic good standing.
3. **Minimum grades of B in Accounting Principles I and II.**
4. Junior standing.

Aerospace Engineering - B.S.

Required Courses

CHE 107 General Chemistry for Engineers

EAS 140 Engineering Solutions

EAS 207 Statics

EAS 208 Dynamics

EAS 209 Mechanics of Solids

EAS 230 Higher Level Language

EE 200 EE Concepts/Nonmajors

MAE 177 Introduction to

Engineering Drawing and CAD

MAE 204 Thermodynamics

MAE 278 Introduction to Aerospace Engineering Practice (replaces MAE 277)

MAE 334 Introduction to Instrumentation and Computers

MAE 335 Fluid Mechanics

MAE 336 Heat Transfer

MAE 338 Fluid and Heat Transfer

Laboratory

MAE 340 Systems Analysis

MAE 376 Numerical Methods

MAE 377 Product Design in a CAD Environment

MAE 381 Engineering Materials

MAE 385 Engineering Materials Laboratory

MAE 415 Analysis of Structures

MAE 416 Aerospace Structures

MAE 422 Gas Dynamics

MAE 423 Introduction to Propulsion

MAE 424 Aerodynamics

MAE 425 Spacecraft Dynamics and Control

MAE 434 Aircraft Design

MAE 436 Flight Dynamics

MAE 451 Design Process and Methods

MTH 141 College Calculus I

MTH 142 College Calculus II

MTH 241 College Calculus III

MTH 306 Introduction to

Differential Equations

PHY 107 General Physics I

PHY 108/PHY 158 General Physics II/Lab

One technical elective

(Removed Science Elective)

Biological Sciences - B.S.

Acceptance Criteria

Minimum combined GPA of 2.0 in **BIO 200** and **BIO 201**, and minimum combined GPA of 2.0 in **CHE 101**, **CHE 102**, **MTH 121** (or **MTH 141**) and **MTH 122** (or **MTH 142**).

Required Courses

BIO 203 General Physiology (was **BIO 328**)

BIO 205 Fundamentals of Biological Chemistry

BIO 319 Genetics

CHE 201 Organic Chemistry

CHE 202 Organic Chemistry

PHY 101/PHY 151 College Physics

I/Lab or **PHY 107** General Physics I

PHY 102/PHY 152 College Physics

II/Lab or **PHY 108/PHY 158** General Physics II/Lab

(Removed BIO 309 and BIO 367)

Four BIO lab courses: choices

include **BIO 213** General Physiology Laboratory (was **BIO 338**), **BIO 215** Fundamentals of Biological Chemistry Laboratory, **BIO 310** Ecology Methods, **BIO 329** Genetics Laboratory, **BIO 332** Adv. Molecular Biology Laboratory (Removed **BIO 476**), **BIO 370** Developmental Biology Laboratory, **BIO 400** Bioinformatics, **BIO 458** Molecular Ecology, 2 cr of **BIO 497** Honors Research or **BIO 498** Undergraduate Research

BIO electives or preapproved elective courses from other departments (see list at <http://www.biology.buffalo.edu>) to reach 44 credit hours minimum for the BS degree (at least 3 credit hours of BIO electives must be at the 400-level). No more than **3 credits (reduced from 6)** of any combination of **BIO 495**, 497, 498, or 499 may count towards the BS degree.

Biological Sciences - B.A.

Acceptance Criteria

Minimum combined GPA of 2.0 in **BIO 200** and **BIO 201**, and minimum combined GPA of 2.0 in **CHE 101**, **CHE 102**, **MTH 121** (or **MTH 141**) and **MTH 122** (or **MTH 142**).

Required Courses

BIO 203 General Physiology (was **BIO 328**)

BIO 205 Fundamentals of Biological Chemistry

BIO 319 Genetics

CHE 201 Organic Chemistry

CHE 202 Organic Chemistry

PHY 101/PHY 151 College Physics

I/Lab or **PHY 107** General Physics I

PHY 102/PHY 152 College Physics

II/Lab or **PHY 108/PHY 158** General

Physics II/Lab

(Removed BIO 309 and BIO 367)

Three BIO lab courses: choices

include **BIO 213** General Physiology Laboratory (was **BIO 338**), **BIO 215**

Fundamentals of Biological Chemistry Laboratory, [BIO 310](#) Ecology Methods, [BIO 329](#) Genetics Laboratory, [BIO 332](#) Adv. Molecular Biology Laboratory (Removed BIO 476), [BIO 370](#) Developmental Biology Laboratory, [BIO 400](#) Bioinformatics, [BIO 458](#) Molecular Ecology, 2 cr of [BIO 497](#) Honors Research or [BIO 498](#) Undergraduate Research

BIO electives or preapproved elective courses from other departments (see list at <http://www.biology.buffalo.edu>) to reach 33 credit hours minimum for the BA degree. No more than 3 credits (reduced from 6) of any combination of [BIO 495](#), 497, 498, or 499 may count towards the BS degree.

Biological Sciences - B.A./M.S.

Acceptance Criteria

INITIAL ACCEPTANCE TO BA PROGRAM

Minimum combined GPA of 2.0 in [BIO 200](#) and [BIO 201](#), and minimum combined GPA of 2.0 in [CHE 101](#), [CHE 102](#), [MTH 121](#) (or 141) and [MTH 122](#) (or 142).

Required Courses

[BIO 203](#) General Physiology (was BIO 328)

[BIO 205](#) Fundamentals of Biological Chemistry

[BIO 319](#) Genetics

[BIO 600](#) Problems in Biology

[BIO 608](#) Graduate Research

[BIO 610](#) Graduate Student Seminar

[BIO 614](#) Departmental Seminar

[CHE 201](#) Organic Chemistry

[CHE 202](#) Organic Chemistry

[PHY 101/PHY 151](#) College Physics I (including [PHY 151](#) lab) or [PHY 107](#) General Physics I

[PHY 102/PHY 152](#) College Physics II/Lab or [PHY 108/PHY 158](#) General Physics II/Lab

(Removed BIO 309 and BIO 367)

Three BIO lab courses: choices include [BIO 213](#) General Physiology

Laboratory (was BIO 338), [BIO 215](#)

Fundamentals of Biological

Chemistry Laboratory, [BIO 310](#)

Ecology Methods, [BIO 329](#) Genetics

Laboratory, [BIO 332](#) Adv. Molecular

Biology Laboratory (Removed BIO

476), [BIO 370](#) Developmental

Biology Laboratory, [BIO 400](#)

Bioinformatics, [BIO 458](#) Molecular

Ecology, 2 cr of [BIO 497](#) Honors

Research or [BIO 498](#) Undergraduate

Research

18 credit hours of graduate-level

electives (should be selected in

consultation with faculty advisor)

Biological Sciences - B.S./D.D.S.

Required Courses

[BIO 203](#) General Physiology (was BIO 328)

[BIO 205](#) Fundamentals of Biological Chemistry

[BIO 319](#) Genetics

[CHE 201](#) Organic Chemistry

[CHE 202](#) Organic Chemistry

[PHY 101/PHY 151](#) College Physics I

(including [PHY 151](#) lab) or [PHY 107](#)

General Physics I

[PHY 102/PHY 152](#) College Physics

II/Lab or [PHY 108/PHY 158](#) General

Physics II/Lab

(Removed BIO 309 and BIO 367)

Three BIO lab courses: choices

include [BIO 213](#) General Physiology

Laboratory (was BIO 338), [BIO 215](#)

Fundamentals of Biological

Chemistry Laboratory, [BIO 310](#)

Ecology Methods, [BIO 329](#) Genetics

Laboratory, [BIO 332](#) Adv. Molecular

Biology Laboratory (Removed BIO

476), [BIO 370](#) Developmental

Biology Laboratory, [BIO 400](#)

Bioinformatics, [BIO 458](#) Molecular

Ecology, 2 cr of [BIO 497](#) Honors

Research or [BIO 498](#) Undergraduate

Research

Biomedical Sciences - B.S.

Acceptance Criteria

Applicants to the program must

submit a UB DARS report with a

minimum GPA of 3.2 in the

math/science prerequisite courses.

Prior to applying, students should have completed at least three semesters of chemistry, two semesters of biology, two semesters of calculus, and one semester of physics with no grade less than B. Application deadlines are September 15 and February 15.

Biophysics – B.S.

This area of study is available as a special major through the College of Arts and Sciences and must be approved by the Special Majors Committee. It is not a separately registered degree program. Refer to the Special Majors section in this catalog for more information.

Business Administration - B.S.

FINANCIAL ANALYSIS

CONCENTRATION

(Removed MGA 305)

[MGA 306](#) Financial Reporting and Analysis

[MGF 405](#) Advanced Corporate Finance

[MGF 402](#) Investment Management

One of the following: [MGF 401](#)

Financial Institutions, [MGF 403](#)

International Financial

Management, [MGF 407](#) Financial

Derivatives and Their Markets or

[MGF 420](#) Special Topics in Finance

OPERATIONS AND SUPPLY CHAIN

MANAGEMENT (New

Concentration)

[MGO 303](#) Supply Chain & Logistics Management

[MGO 304](#) Service Operations &

Extreme Events Management

Plus one of the following courses:

[MGO 405](#) Business Forecasting, [MGI](#)

[411](#) Collective Bargaining, [MGB 425](#)

Power & Influence in Organizations,

[IE 409](#) Six Sigma Quality, [IE 408](#)

Quality Assurance, [IE 460](#) Lean

Enterprise & Industrial Applications

English - B.A.

Note: Many ENG courses have been renumbered. Please see the Undergraduate Catalog online for a complete and current listing of ENG courses.

Prerequisites

Completion of the university writing skills requirement ([ENG 101](#) Writing 1 and [ENG 201](#) Advanced Writing or [ENG 102](#) Writing 2).

Two 200-level courses (6 credits) of English in the [ENG 202- ENG 299](#) range, with a minimum GPA of 2.5 in these courses. We recommend that at least one be a survey of literary history such as World Literature ([ENG 221](#)), British Writers ([ENG 231-ENG 232](#)), or American Writers ([ENG 241-ENG 242](#)) (Removed the requirement that one of these two courses must be in Literature)

Required Courses

Eleven 300/400-level courses, including:
[ENG 301](#), Criticism;

four courses (12 credits) in Earlier Literature, chosen from among specified upper-level courses that focus on literature written before 1800 (removed the requirement that two of these courses must be by major canonical authors);

one course (3 credits) in Breadth of Literary Study, chosen from among specified upper-level English courses that are grounded in perspectives or experience outside the literary mainstream;

five additional (elective) courses in the [ENG 300-ENG 400](#) range; At least one of the required eleven upper-level courses, whether an Early Literature course, a Breadth of Literary Study course, or an Elective, must be a course from the [ENG 400-level](#); neither an internship nor an independent study will satisfy this

requirement.

Foreign language courses (0-16 credit hours)*

Exercise Science and Epidemiology - B.S./M.P.H. (New Degree)

Informatics – B.S.

The Informatics program is currently suspended and no longer accepting students to the major.

Mathematics - B.S.

Concentration BSc/AM: General Study in Applied Mathematics
Required Courses

[CSE 115](#) Introduction to Computer Science for Majors I

[MTH 306](#) Introduction to Differential Equations

[MTH 309](#) Introductory Linear Algebra

[MTH 311](#) Introduction to Higher Mathematics

[MTH 337](#) Introduction to Scientific and Mathematical Computing

[MTH 417](#) Survey of Multivariable Calculus

[MTH 418](#) Survey of Partial Differential Equations

[MTH 419](#) Introduction to Abstract Algebra or [MTH 420](#) Advanced Linear Algebra

[MTH 431](#) Introduction to Real Variables I

[MTH 443](#) Fundamentals of Applied Mathematics I

Three 300/400-level mathematics courses

Three 300/400-level courses in mathematics or computer science

[PHY 107](#) General Physics I

[PHY 108](#) General Physics II

(Removed CSE 116, MTH 432, one elective)

Mathematics - B.A.

Concentration GS/AM: General Study in Applied Mathematics
Required Courses

[CSE 115](#) Introduction to Computer Science for Majors I

[MTH 306](#) Introduction to Differential Equations

[MTH 309](#) Introductory Linear Algebra

[MTH 311](#) Introduction to Higher Mathematics

[MTH 337](#) Introduction to Scientific and Mathematical Computing

[MTH 417](#) Survey of Multivariable Calculus

[MTH 418](#) Survey of Partial Differential Equations

[MTH 419](#) Introduction to Abstract Algebra or [MTH 420](#) Advanced Linear Algebra

[MTH 431](#) Introduction to Real Variables I

[MTH 443](#) Fundamentals of Applied Mathematics I

Two 300/400-level courses in mathematics or computer science

[PHY 107](#) General Physics I

[PHY 108](#) General Physics II

(Removed CSE 116, MTH 432, one elective)

Nuclear Medicine Technology - B.S.

Required Courses

[NMD 305](#) Immunology For NMT

[NMD 321](#) Basic Radiation Science

[NMD 324](#) Nuclear Medicine Technology (content split into two courses – NMD 324 and NMD 424)

[NMD 325](#) Radiation Safety for NMT

[NMD 350](#) X-Ray and CT Physics

[NMD 427](#) Radiation Biology

[NMD 340](#) Patient Care and Management in NMT

[NMD 399](#) InVivo Studies I

[NMD 400](#) InVivo Studies II

[NMD 401](#) InVivo Studies III

[NMD 415](#) Radionuclide Therapy

[NMD 416](#) Departmental Management for NMT

[NMD 424](#) Nuclear Instrumentation

[NMD 425](#) Clinical Conference A

[NMD 426](#) Clinical Conference B

[NMD 451](#) Radiopharmacy

[NMD 496](#) Clinical Rotation

(repeatable for credit)

Philosophy - B.A.

Required Courses

Ethics

One of: [PHI 107](#) Ethics, [PHI 238](#)

Philosophy of Law, [PHI 335](#)

Contemporary Ethical Theory, [PHI 336](#) History of Ethics, [PHI 337](#) Social and Ethical Values in Medicine

Logic

One of: [PHI 215](#) Introduction to Deductive Logic, [PHI 315](#) Symbolic Logic

Metaphysics and Epistemology

One of: [PHI 329](#) Metaphysics, [PHI 333](#) Epistemology, [PHI 320](#) Philosophy of Mind, [PHI 321](#) Philosophy of Science, [PHI 328](#) Philosophy of Language (Removed [PHI 108](#))

History of Philosophy

Two of: [PHI 360](#) Ancient Philosophy, [PHI 366](#) Medieval Philosophy, [PHI 370](#) Early Modern Philosophy, [PHI 380](#) Nineteenth-Century Philosophy, Kant to Nietzsche, [PHI 388](#) Twentieth-Century Philosophy

Philosophy electives

Seven additional courses, of which four must be at the 300/400 level

Philosophy - Minors

PHILOSOPHY OF SCIENCE-MINOR

[PHI 115](#) Critical Thinking or [PHI 215](#)

Introduction to Deductive Logic

[PHI 221](#) Science and Religion

[PHI 315](#) Symbolic Logic

[PHI 321](#) Philosophy of Science

[PHI 370](#) Early Modern Philosophy

One of: [PHI 320](#) Philosophy of Mind, [PHI 329](#) Metaphysics; [PHI 333](#)

Epistemology, [PHI 334](#)

Environmental Ethics, [PHI 337](#) Social and Ethical Values in Medicine, [PHI](#)

[420](#) Topics in Philosophy of Science

PHILOSOPHY OF THE ARTS-MINOR

[PHI 115](#) Critical Thinking

Three of: [PHI 344](#) Aesthetics Theory and Criticism, [PHI 345](#) Aesthetics and Philosophy of Art, [PHI 346](#) Philosophy in Literature, [PHI 348](#) Philosophy and Popular Culture [PHI 360](#) Ancient Philosophy or [PHI 354](#) Chinese and Japanese Philosophy

One additional 300/400-level course (reduced from two 300/400-level courses)

(Removed [PHI 108](#))

Political Science - B.A.

Required Courses

Twelve PSC courses, distributed as follows:

[PSC 101](#) Introduction to American Politics

Seven 300/400-level PSC courses, up to two of which may be from:

[PSC 496](#) Washington Semester Internship, [PSC 496](#) Community Internship Program, [PSC 496](#) New York State Senate and Assembly Internship, [PSC 497](#) Honors Thesis, [PSC 499](#) Independent Study

One methods of inquiry course: [PSC](#)

[200](#) Empirical Political Science, [PSC](#)

[393](#) Game Theory and Politics, or

[PSC 408](#) Basic Statistics for Social Science. Acceptable substitutions:

[SOC 294](#), [ECO 480](#), [PSY 207](#), [STA 119](#), [SSC 225](#), [MGQ 301](#), and [GEO 410](#).

At least one course in any three of the following four fields: American politics, comparative politics, international relations, political philosophy

(Removed [PSC 100](#))

Political Science - Minor

Required Courses

[PSC 101](#) Introduction to American Politics

One methods of inquiry course: [PSC 200](#) Empirical Political Science, [PSC 393](#) Game Theory and Politics, or [PSC 408](#) Basic Statistics for Social Science. Acceptable substitutes: [SOC 294](#), [ECO 480](#), [PSY 207](#), [STA 119](#), [SSC 225](#), [MGQ 301](#), and [GEO 410](#).

Three 300/400-level PSC courses; at least one must be in comparative politics, international relations, or political philosophy

Two additional political science courses in any field at any level.

(Removed [PSC 100](#))

Social Sciences Interdisciplinary - B.A.

Concentration in Legal Studies

Required Courses

Two introductory courses

Two writing skills courses

One analytical skills course

Seven advanced courses, one of which must be [PSC 301](#), [PSC 302](#), [PSC 303](#), or [HIS 303](#)

Fine Arts - B.F.A.

Major Studio Concentration in [General Studio](#) (was [Visual Studies Studio](#))

Major Studio Concentration in [General Studio](#)

Four 200 level Studio Art Electives

Three 300 level Studio Art Electives

One 300 or 400 level Studio Art Elective

One 400 level Studio Art Elective

One 300 Studio Art or Visual Studies Elective

One 300 or 400 [Studio Art or](#) Visual Studies Elective

One 400 level [Studio Art or](#) Visual Studies Elective

[One AHI or VS elective](#)