

BRYN ATHYN COLLEGE®
— OF THE —
NEW CHURCH

2026-27

Undergraduate
Course Bulletin

Table of Contents

Academic Reminders and Requirements	5
First Year Requirements.....	5
Second Year Requirements	5
Third Year Requirements.....	5
Fourth Year Requirements.....	5
Course Recommendations by Intended Major	6
Student Online Registration Instructions	6
Fall Term 2026-27 Undergraduate Course List	8
Fall Term 2026-27 Undergraduate Courses.....	10
Anthropology	10
Biology	10
Business.....	11
Chemistry.....	12
Communication.....	12
Computer Science	13
Earth and Environmental Science.....	13
Economics	14
Education.....	14
English	15
Fine Arts	16
Geography	16
German	16
History.....	17
Human Society	17
Interdisciplinary Studies	17
Mathematics.....	17
Music	18
Philosophy	18
Psychology	19
Religion	19
Writing	20

Winter Term 2026-27 Undergraduate Course List.....	21
Winter Term 2026-27 Undergraduate Courses	23
Anthropology	23
Biology	23
Business.....	24
Chemistry.....	25
Communication.....	25
Computer Science	26
Economics	26
Education.....	26
English	27
Fine Arts	28
German	28
History.....	28
Human Society	28
Latin.....	28
Mathematics.....	29
Philosophy	29
Physics.....	30
Political Science	30
Psychology	30
Religion	31
Writing	31
Spring Term 2026-27 Undergraduate Course List	32
Spring Term 2026-27 Undergraduate Courses	34
Anthropology	34
Biology	34
Business.....	35
Chemistry.....	36
Computer Science	37
Earth and Environmental Science.....	37
Economics	37

Education.....	38
English	39
Fine Arts	39
History.....	39
Latin.....	40
Mathematics.....	40
Music.....	40
Philosophy	40
Psychology	41
Religion	41
Writing	42

Academic Reminders and Requirements

Make sure you have a tentative academic plan before you see your advisor to register for classes. Your advisor can provide information and perspectives that may help you make decisions, but it is your academic program. It is your responsibility to ensure it is the program you want and need.

To be full-time, choose 9-14.5 credits each term that advance you toward degree or feed your interests. Full-time students must take at least 9 credits each term. However, to stay on track for a graduation in four years and maintain full eligibility for student loans, you will need to complete, on average, 31 credits per year. Full-time tuition covers up to 15 credits per term, but credits over 14.5 are considered overload. Additional payment may be necessary for 15.5-17 credits. Overload credits (15-17) generally require approval by the Dean of Academics. See the *Student Handbook* for more details: [Catalog, Courses, and Forms | Bryn Athyn College](#)

While progressing toward your degree, keep the following requirements in mind:

First Year Requirements

- Two religion courses (100-level) during the year, including passing Religion 101 or 110
- Writing 101 (and Writing 100 for provisional admits and those with SAT reading score below 450)
- Math 101 (if SAT math score below 500)
- To advance to second year status, you must complete residency requirements and at least 31 credits.

Second Year Requirements

- Two religion courses during the year
- Writing 202
- Application to a major by end of the fifth full-time term
- To advance to third year status, you must complete residency requirements and at least 62 credits.

Third Year Requirements

- One religion course (not 100-level)
- Submit a Roadmap to Graduation checklist with assistance of advisor
- To advance to fourth year status, you must complete residency requirements and at least 93 credits, and be accepted into a major program.

Fourth Year Requirements

- One religion course (not 100-level)
- To be eligible to graduate, you must complete all major, core, and residency requirements, complete at least 124 credits (some majors may require more), and have a minimum 2.0 cumulative GPA.

Course Recommendations by Intended Major

In addition to the residency requirements listed above, students interested in the following majors should take, if possible and academically prepared, the courses listed below in their first year.

- **Biology:** Bio122 & 122L, Bio123 and 123L, Chem101, Chem110 and 110L, Chem111 and 111L, Math130, Bio 232 or Bio250
- **Business:** Econ 131 or 132, Phil101, Math130, Comm105, Bus141
- **Education:** Ed128, ESci110, Geog110 or Anth110 or Soc110, any 100-level History course, two math courses, Phil102
- **English and Communications:** Comm105; Writ202 (if eligible); Eng105 and/or 110 (if taken twice or in combination can satisfy 200-level lit)”
- **Human Society:** any three of: Anth110, Geog110, any 100-level History, PSci101, Soc110
- **Math ID:** Math150, Math151, Math250 or 311 (if B or better in Math151), one course in math-related field such as computer science, physics, or economics
- **Philosophical Theology ID:** Phil101, Phil102
- **Psychology:** Psyc101, Bio122 and 122L, Math130, Psyc201, Psyc204, Psyc220
- **Religion:** Rel110, Rel205, Phil102, Phil111

For more information on a particular major or the Core Program, please see the information available in the *BAC Academic Programs Bulletin* ([Catalog, Courses, and Forms | Bryn Athyn College](#)), or the major worksheets ([Majors and Tracks | Bryn Athyn College](#)).

Student Online Registration Instructions

First-year students must complete registration through their advisor. Second-year students and higher are eligible to perform their own registration during open registration sessions, assuming there are no financial holds on their accounts. Exact dates for open registration will be communicated by the registrar. To complete your own registration, follow these instructions

- Go to: <https://brynathyn.jenzabarcloud.com/>
- Login and click on “Students”
- Enter your PIN and ID (PIN is case sensitive, ID requires leading zeroes)
 - If you forget your ID or PIN, click the link on login page
- Click on “Academics” and select Registration
- Select “View All” to see course list
- Register for a course by clicking on the number in the “spaces” column
- After selecting courses, click on “Continue Registration Process”
- Review courses and, if correct, click “Continue”
- Finalize by clicking “Return” button.
- If a course is full, you can add yourself to a wait list by clicking the number in the “wait” column

Notes:

You will need to see your advisor if you want to:

- audit a course
- conduct an independent study
- complete an internship
- take more than 14.5 credits
- drop a course after the first week of the term

Your advisor will guide you through the process of setting up an independent study, internship, or credit overload. Note that students and advisors will be unable to register for internships or independent studies through the online registration system. Internships and independent studies will be registered by the Registrar once the appropriate paperwork has been completed.

Fall Term 2026-27 Undergraduate Course List

As of 9/16/26 (Independent Study and Internship courses not listed).

Code	Course Name	Credits	Instructor
Ant/His211	Artifacts, Archaeology, and Museums (W)	3	Closterman, Wendy
Bio122	Introduction to Biology: Genetics and Evolution	3	McMackin, Grace Rose
Bio122L*	Introduction to Biology: Genetics and Evolution Lab	1	McMackin, Grace Rose
Bio373*	Biological Laboratory Techniques: Molecular Biology	2	Evans, Stella R.
Bio490	Biology Seminar I (IL)	1	Evans, Stella R.
Bus141	Accounting I	3	King, Ethan
Bus254	Principles of Marketing	3	King, Ethan
Bus290	Internship Preparation Seminar	1.5	Keenan, Daniela
Bus320	Financial Management (QR)	3	Waltrich, Christopher
Bus351	Introduction to Business Law	3	Rogers, Elizabeth
Bus493	Senior Literature Review	2	King, Ethan
Bus494	Senior Seminar I	1	Cole, Stephen
Bus495	Senior Capstone Project	2	Rogers, Elizabeth
Chem210L*	Organic Chemistry I -Lab	1	Evans, Stella R.
Comm130*	Foundations of Graphic Design	3	Mill, Carl
CS/ESci316	Introduction to Photogrammetry: Remote Sensing and Geodatabases	3	Potapov, Eugene R.
CSci105	Introduction to Computer Systems (QR)	3	Frazier, Thomas McKinley
CSci493	Senior Literature Review. (IL)	1	Simonetti, Neil
Econ132	Microeconomics (QR)	3	King, Ethan
Ed217	Language, Literacy, and Numeracy	3	Rose, Angela N.
Ed322	Social Studies and the Young Child	3	Phillips, Nina Gunther
Ed333	Seminar on Art and Creative Expression	2	Krumholz, Beth
Eng235	Shakespeare (W)	3	Cooper, Robin
Eng370	Literature of the Past Four Decades (W)	3	Pine, Ryan E.
Eng495	Senior Seminar: Career Preparation	1.5	Pine, Ryan E.
Eng499	English Major Capstone Project	1	Pine, Ryan E.
EnSci105	Introduction to Sustainability	3	Potapov, Eugene R.
EnSci105L*	Introduction to Sustainability	1	Potapov, Eugene R.
FA130*	Ceramics	3	Simons, Bronwyn M.
FE1	Field Experience I: Observation	2.5	Rose, Angela N.
FESpEd	Field Experience in Special Education	3	Wong, Sarah
Geog110	World Regional Geography	3	Palladino, Christopher

Germ101	Introductory German I	3	Lawing, Sean
Hist205	Topics in History: Crusades and Black Death	3	Lawing, Sean
Hist355	Reacting to the Past: The Founding Era	3	Closterman, Wendy
HSoc401	Capstone Seminar I (IL)	3	Yardumian, Aram
ID494	Senior Seminar I	1	Cole, Stephen
Math095	Preparation for Quantitative Reasoning	1	Genzlinger, Maret
Math101	Introduction to Quantitative Reasoning (QR)	3	McMackin, Grace Rose
Math150	Calculus I (QR)	3	Bongers, Caira
Math150L	Calculus I Lab	1	Bongers, Caira
Math240	Linear Algebra (QR)	3	Simonetti, Neil
Mus100	College Chorale	1	Bier, Graham
Phil102	Introduction to Philosophy (Worldview)	3	Cole, Stephen
Phil111	How To Flourish: An Introduction to Moral Philosophy (Moral)	3	Latta, Marcy
Psyc491	Senior Capstone Seminar in Psychology	3	Cavallo, Fernando
Rel110	Introduction to Systematic Theology (SpDoc)	3	Frazier, Scott Innes
Rel220	The Torah (SpScript)	3	Genzlinger, Matthew
Rel272	Advanced Religious Ethics (SpAppl) (W)	3	Glenn, Thane
Rel310	Studies in Arcana Coelestia (W)(SpDoc)	3	Glenn, Thane
Rel372	Spiritual Development for Educators (SpAppl)(W)	3	Glenn, Thane
SpEd331	Classroom Management and Behavioral Support	3	Rose, Angela N.
Writ101	Expository Writing (W)	3	Cooper, Robin

+This course is offered on multiple levels. All students must register on the 100 level.

*This course requires a lab fee.

The College administration will make every effort to offer the courses listed, but reserves the right to cancel courses if necessary.

Fall Term 2026-27 Undergraduate Courses

Anthropology

Ant/His211. Artifacts, Archaeology, and Museums (W).

Introduction to the theories and methods used to interpret how objects relate to a society's values, ideas, and attitudes. Includes examination of archaeological method, archaeological and museum ethics, and the use of objects in a museum setting. Substantial use of hands-on projects and Glencairn Museum as a lab. Includes visits to other Bryn Athyn historic district sites and local sites.

3 credits.

Biology

Bio122. Introduction to Biology: Genetics and Evolution.

The first of a two-course gateway series that is required for prospective biology majors. Introduction to principles of genetics and evolution. Includes evolution, natural selection, cell division and the cell cycle, chromosomes, Mendelian and non-Mendelian inheritance, the Hardy-Weinberg principle, how selection, migration and genetic drift influence evolution, kin selection, mechanisms of speciation, and the last common ancestor and the tree of life. The course concludes with a section on development and evolution. This course and the related laboratory must be taken together.

3 credits.

Bio122L. Introduction to Biology: Genetics and Evolution Lab.

This course and the related lecture course must be taken together.

1 credits.

Lab fee \$37

Bio373. Biological Laboratory Techniques: Molecular Biology.

Junior level biology laboratory course supporting Biology 230, 232, 310, 315, and 355. A mixture of theoretical and practical experience in techniques used in molecular biology, including PCR and cell-based cloning, nucleic acid hybridization, bioinformatics, protein expression and analysis, and culturing microbiological organisms. Laboratory reports, lab notebooks, and scientific writing skills integral.

2 credits.

Lab fee \$37

Bio490. Biology Seminar I (IL).

Broadened exposure to active areas of biology and reading current literature. Students are required to read and present current literature related to their senior projects. Required of seniors in the biology major and open to seniors in the ID major who are studying biology.

1 credit.

Business

Bus141. Accounting I.

Introduction to basic financial accounting principles, the accounting cycle, the preparation of financial statements, and the use of computer spreadsheets.

3 credits.

Bus254. Principles of Marketing.

Focus on customer behavior, promotion, channels of distribution, product, and pricing, with emphasis on formulating marketing plans and strategies in a global and culturally diverse environment.

3 credits.

Bus290. Internship Preparation Seminar.

This course will introduce the requirements for internships, including the learning plan, journal entries, final projects, and relation to academic study. Students will learn employment related skills including: networking, interviewing, resume creation, attendance requirements, professional appearance, professional conduct, confidentiality, and maintaining ongoing relationships. May not be repeated for credit.

1.5 credits.

Bus320. Financial Management (QR).

Introduction to business finance, the role of the chief financial officer, and financial tools used by management. Emphasis on management of revenue and expenses, application of basic financial concepts to the solution of organizational problems, analysis of the short and long-term financial needs of an organization, and selection of most feasible course of action to secure best possible financial outcome and allocation of resources. Topics of present value, stock and bond valuation, capital budgeting, financial forecasting, and capital structures also examined.

3 credits.

Bus351. Introduction to Business Law.

Legal enforcement of obligations and the function of law in modern business. The establishment and enforcement of contractual obligations. The establishment of an agency relationship and its effect on third parties.

3 credits.

Bus493. Senior Literature Review.

General guidance in continuing research and review literature related to the chosen topic for the senior capstone project, Support for crafting a sound and interesting argument, resulting in an outline of main points for the project.

2 credits.

Bus494. Senior Seminar I.

For seniors in the Business Major. Focus on developing a spiritual perspective on the student's capstone project using Swedenborgian and other principles.

1 credits.

Bus495. Senior Capstone Project.

Capstone experience for the Interdisciplinary Major. Writing of the senior project based on the research and outline produced in Business 493.

2 credits.

Bus498. Business Internship.

Proposals must be approved by Internship Director. Students may apply for this internship after being accepted into a business program. Students doing internships in the summer or fall are encouraged to take the internship preparation seminar, Business 290. May be repeated for credit. Credits and requirements variable

3 credits.

Chemistry

Chem210. Organic Chemistry I.

Second year chemistry course for science majors. Topics include molecular orbital and hybrid orbital theory and bonding, chemical energetics, alkanes, alkenes, halo alkanes, alcohols, alkynes, dienes, stereochemistry, and classes of reactions and reaction mechanisms. Laboratory includes basic techniques in organic chemistry and computer based molecular modeling. First half of sequence with Chemistry 211. This course and the related laboratory must be taken together.

3 credits.

Chem210L. Organic Chemistry I -Lab.

Includes basic techniques in organic chemistry and computer based molecular modeling. This course and the related lecture course must be taken together.

1 credits.

Lab fee \$37

Communication

Comm130. Foundations of Graphic Design.

An introduction to the graphic design profession including how to create and communicate ideas effectively. The course covers the building blocks of design, spatial relationships, typography and imagery as they apply to graphic communication for print and the web. Students will develop graphic design skills, gain insight into

the history of graphic design, and solve visual communication problems using their creativity and the Adobe Creative Suite of software (InDesign, Illustrator).

3 credits.

Lab fee \$32

Computer Science

CS/ESci316. Introduction to Photogrammetry: Remote Sensing and Geodatabases.

This course covers applications for extracting, keeping, querying and processing spatial data for many applied disciplines such as earth science, geography, health, ecology and history using GIS-based, geo-spatial and raster data. Volumetric and 3D models derived from UAS (drone) mission and publicly available data, Landsat imagery processing and applied geospatial indices are the outcomes of data-oriented exercises. SQL queries, QGIS, Google Earth, Mesh-lab and ODM (Open Drone Maps) open-source software will be used throughout the course. Lectures and laboratory exercises will be combined in each session. Prerequisites: Either Computer Science 206 or Computer Science/Earth Science 216 or proficiency with Excel and permission of instructor.

3 credits.

CSci105. Introduction to Computer Systems (QR).

Discussion of how computers and networks work; introduction to web page construction with HTML; introduction to programming with Python; introduction to spreadsheet and database design and queries.

3 credits.

CSci493. Senior Literature Review. (IL).

Literature review for seniors in the Interdisciplinary major with Computer Science.

1 credits.

Earth and Environmental Science

CS/ESci316. Introduction to Photogrammetry: Remote Sensing and Geodatabases.

This course covers applications for extracting, keeping, querying and processing spatial data for many applied disciplines such as earth science, geography, health, ecology and history using GIS-based, geo-spatial and raster data. Volumetric and 3D models derived from UAS (drone) mission and publicly available data, Landsat imagery processing and applied geospatial indices are the outcomes of data-oriented exercises. SQL queries, QGIS, Google Earth, Mesh-lab and ODM (Open Drone Maps) open-source software will be used throughout the course. Lectures and laboratory exercises will be combined in each session. Prerequisites: Either Computer Science 206 or Computer Science/Earth Science 216 or proficiency with Excel and permission of instructor.

3 credits.

EnSci105. Introduction to Sustainability.

Introductory cross-disciplinary study of the principles of sustainability in the modern world. Topics include: the limits to economic growth, demography and its constraints on economics, ecological implications of human population growth, limits of energy consumption and production, and ecological principles in the modern world. This course and the related laboratory must be taken together.

3 credits.

EnSci105L. Introduction to Sustainability.

This course and the related lecture course must be taken together.

1 credits.

Lab fee \$37

Economics

Econ132. Microeconomics (QR).

Study of the fundamentals of economic analysis with particular emphasis upon consumer demand behavior and the output and pricing decisions of business firms under various market structures. Special attention given to the role of ethics in the behavior of business executives and consumers. Consideration of current issues such as health care, energy policy, and government intervention in the market. Course includes student-led seminars and group projects.

3 credits.

Education

Ed217. Language, Literacy, and Numeracy.

This course prepares students for their role in the early childhood classroom. Special attention given to emergent language and language-rich environments; the preconditions for developing literacy; phonological awareness; and number sense as a foundation for mathematics. Includes 1 credit hour of ELL instruction.

3 credits.

Ed322. Social Studies and the Young Child.

Emphasis on the skills and attitudes taught within social studies and developed in early childhood programs. Special attention to state standards as well as New Church competencies through the study of units, multicultural experiences, and the methods and materials for teaching social studies. Contains theory and practice of Garden-based Learning. Open only to third year students.

3 credits.

Ed333. Seminar on Art and Creative Expression.

Concepts related to creativity in the arts and the many media areas used by children to express themselves are introduced. Topics include: concepts of creativity; facilitation of children's creative expression; appreciation of children's art processes and products.

2 credits.

FE1. Field Experience I: Observation.

Students will be assigned to a classroom for guided observation experience that relates to course work during the third year. Open to non-majors with permission from education department chair.

2.5 credits.

FESpEd. Field Experience in Special Education.

This pre-student teaching course provides students the opportunity to observe in a special education setting and apply the knowledge and skills they have learned in their coursework. Students will gain hands-on experiences working with students who learn differently, be exposed to the various types and levels of service delivery, and have opportunities to reflect on how, when, and why specific evidence-based practices are implemented. Students will start in the observational phase and gradually take on increased instructional responsibilities throughout the term.

3 credits.

SpEd331. Classroom Management and Behavioral Support.

Examination of what it means to lead and manage a differentiated classroom. Addresses classroom management skills of fostering a positive learning environment and how to plan and deliver assessment-driven instruction. Implementing Positive Behavior Intervention and Support (PBIS) and conducting a Functional Behavioral Analysis (FBA) will be highlighted.

3 credits.

English

Eng235. Shakespeare (W).

In-depth study of selected Shakespearean tragedies, comedies, histories, and sonnets. Lectures and collateral readings with background of the Elizabethan world.

3 credits.

Eng370. Literature of the Past Four Decades (W).

Focus on American novels, with selected shorts stories and poems. Overarching themes of memory, consciousness, and the literary aftermath of social trauma (Slavery, WWII, Vietnam, 911).

3 credits.

Eng495. Senior Seminar: Career Preparation.

Focus on professional transition to workplace or graduate school. Guest speakers present recent trends in English studies and in employment for English and Communications majors. Students propose (or present if completed) their capstone work as well as give evidence of facility in the software and technology skills required of BAC English and Communications graduates. Students network with alumni online or face-to-face.

1.5 credits.

Eng499. English Major Capstone Project.

Writing project for the English and Communications major. Supplemental to a 300-level English course, this credit involves extended independent research and writing beyond the scope of the course.

1 credit.

Fine Arts

FA130. Ceramics.

Introduction to clay work including hand building, wheel throwing, slip casting, glazing, and firing processes. Also form function and representation.

3 credits.

Lab fee \$135

Geography

Geog110. World Regional Geography.

Study of world regions with emphasis on the geographic relationships—physical and cultural—that give them their character. Emphasizes the political and cultural formations of human societies. Focus on familiarity with map locations.

3 credits.

German

Germ101. Introductory German I.

Introduction to the German language for students without previous experience. Emphasis is placed on communication and the foundations of German grammar. German is the language of instruction.

3 credits.

History

Hist205. Topics in History: Crusades and Black Death.

Examination of a selected historical theme or time period. Specific title announced in the course bulletin when offered. May be repeated when different topics are offered.

3 credits.

Hist355. Reacting to the Past: The Founding Era.

Students take part in two historical role-playing games informed by classic texts. Focus on developing skills – speaking, writing, critical thinking, problem solving, leadership, and teamwork – in order to prevail in elaborate and complicated simulations. May be repeated when different topics are offered.

3 credits.

Human Society

HSoc401. Capstone Seminar I (II).

Students in the Human Society major engage in focused research for their capstone projects. The seminar setting provides instruction in related skills and offers a forum for support and the exchange of ideas. As part of the seminar, each student will generate a written research proposal, which will also be presented publicly. Each student also examines in depth a specific New Church concept related to the student's capstone project. Open to Human Society majors.

3 credits.

Interdisciplinary Studies

ID494. Senior Seminar I.

For seniors in the Interdisciplinary and Mathematics majors. Focus on developing a spiritual perspective on the student's capstone project using Swedenborgian and other principles.

1 credit.

Mathematics

Math095. Preparation for Quantitative Reasoning.

This course provides additional support for students enrolled in Math101. Topics include translating expressions, building equations, order of operations, and recognizing context. Credit from this course may not be used to satisfy degree requirements.

1 credit.

Math101. Introduction to Quantitative Reasoning (QR).

Introduction to mathematical concepts to improve basic skills in computation, algebra, graphing, and quantitative applications. This course prepares students for other mathematics courses and courses involving quantitative reasoning. Topics include linear modeling, units of measure and currency, and statistical reasoning, and financial topics.

3 credits.

Math150. Calculus I (QR).

Limits, differentiation, maxima-minima, related rates, Riemann sums, integration with applications, fundamental theorem of calculus, transcendental functions. Because of duplication of subject matter, students may not receive credit for both Mathematics 140 and Mathematics 150.

4 credits.

Math240. Linear Algebra (QR).

Vector spaces, matrices, linear transformations, systems of linear equations, determinants, and eigenvalue problems. Introduction to mathematical proofs.

3 credits.

Music

Mus100. College Chorale.

Development and performance of choral repertoire from Renaissance to Modern. Instruction in the development of vocal techniques. Course may be repeated for credit.

1 credits.

Philosophy

Phil102. Introduction to Philosophy (Worldview).

Survey of some major philosophers and theories in metaphysics, epistemology, and the philosophy of religion.

3 credits.

Phil111. How To Flourish: An Introduction to Moral Philosophy (Moral).

Survey of some major philosophers, problems (Euthyphro, relativism, egoism), and theories (aretaic, deontic, utilitarian) in moral philosophy. May be taken as an honors course. Strongly recommended: Philosophy 101 or Philosophy 102.

3 credits.

Psychology

Psyc491. Senior Capstone Seminar in Psychology.

Capstone for seniors in the psychology major. Independent work on a Senior Research Essay guided by the professor. Essay includes an abstract, introduction, literature review, descriptive chapter, doctrinal study, conclusions, and references. Information literacy and writing skills emphasized.

3 credits.

Religion

Rel110. Introduction to Systematic Theology (SpDoc).

A comprehensive overview of New Church doctrine. Emphasis on core doctrines of the Lord, faith and charity, the Word, the afterlife, the mind, Divine providence, judgment, marriage, and repentance.

Presupposes a moderate familiarity with New Church teachings.

3 credits.

Rel220. The Torah (SpScript).

Detailed study of Genesis to Deuteronomy in their historical and cultural context. Discussion of translations, certain critical theories, and other related ideas. Treatment of the literal meaning in relation to its higher meanings and other doctrinal considerations.

3 credits.

Rel272. Advanced Religious Ethics (SpAppl) (W).

Advanced study of the Ten Commandments as they appear in the religious writings of Hinduism, Buddhism, Judaism, Christianity, Islam, and other world faiths. Study of the literal and spiritual level of each commandment using selected texts from sacred and secular sources. Students encouraged to draw connections between the various levels of the commandments and their own lives.

3 credits.

Rel310. Studies in Arcana Coelestia (W)(SpDoc).

Study of Emanuel Swedenborg's first publication of theology for a New Church. The course provides an overview of the work's spiritual exegesis of Genesis and Exodus--from the first mythopoeic stories of creation to the Israelites' escape from slavery in Egypt. Special focus on the Abram story and how the narrative of Jehovah's call to humankind contains an ancient picture of our relationship with a Human God.

3 credits.

Rel372. Spiritual Development for Educators (SpAppl)(W).

This course is primarily designed for educators who are currently (1) working in an elementary or secondary school setting, or (2) planning to work in an educational setting. Each week, students will have the opportunity to reflect on the many challenges that come up within educational settings that prevent them

from being the loving, wise, and useful educators they hope to be. Each week, students will have the opportunity to reflect on their feelings, thoughts, and actions in the light of one of the Ten Commandments and, when appropriate, share their experiences with classmates.

3 credits.

Writing

Writ101. Expository Writing (W).

Development of informative, analytic, and persuasive writing. Emphases on grammatical control, precision of language, consideration of audience, rhetorical strategies, revision, information literacy, and articulation, development, and support of thesis. Three to four formal essays, including substantial revision work.

Individual conferences with instructor to discuss students' writing. Required of first year students. English language learners who want to take Writing 101 in their first year need permission of the Language and Literature department chair.

3 credits.

Winter Term 2026-27 Undergraduate Course List

As of 9/16/26 (Independent Study and Internship courses not listed).

Code	Course Name	Credits	Instructor
Anth240	Anthropology of Religion	3	Yardumian, Aram
Anth320	Genocide	3	Palladino, Christopher
Bio123	Introduction to Biology: Molecular Biology	3	McMackin, Grace Rose
Bio123L*	Introduction to Biology: Molecular Biology Lab	1	McMackin, Grace Rose
Bio245	Zoology	3	Potapov, Eugene R.
Bio245L*	Zoology Lab	1	Potapov, Eugene R.
Bio495	Senior Project	3	Evans, Stella R.
Bus142	Accounting II (QR)	3	Waltrich, Christopher
Bus301	Business Ethics (Moral)(PP)	3	King, Ethan
Bus321	Topics in Finance	3	Tepper, James
Bus495	Senior Capstone Project	2	Rogers, Elizabeth
Chem110	General Chemistry I	3	McMackin, Grace Rose
Chem110L*	General Chemistry I Lab	1	Evans, Stella R.
Comm105	Public Speaking (PP)	3	Pine, Ryan E.
Comm230*	Intermediate Graphic Design	3	Mill, Carl
CSci180	Structured Programming (QR)	3	Simonetti, Neil
CSci255	Topics in Computer Science: an Introduction to Algorithms for AI	3	Ebert, Charles H.
CSci490	Senior Essay	3	Simonetti, Neil
Econ131	Macroeconomics (QR)	3	King, Ethan
Ed218	Literacy Instruction for Young Learners I	3	Phillips, Nina Gunther
Ed323	Math and the Young Child	3	Rose, Angela N.
Ed330	Lesson Planning Seminar	1	Rose, Angela N.
Ed402	Student Teaching (EE)	3	Wong, Sarah
Eng218	American Literature I	3	Cooper, Robin
Eng320	The English Language	3	Glenn, Thane
FA140*	Drawing and Painting	3	Simons, Bronwyn M.
FE2	Field Experience II: Exploration	3	Rose, Angela N.
Germ102	Introductory German II	3	Lawing, Sean
Hist105	Topics in History: Epic Middle Ages	3	Lawing, Sean
HSoc402	Capstone Seminar II (W)	3	Closterman, Wendy
Lat110	Beginning Latin I	3	Frazier, Scott Innes
Lead130	Introduction to Leadership (EE)	3	Staff
Math110	Mathematics for Business (QR)	3	Potapov, Eugene R.

Math130	Introduction to Statistics (QR)	3	Bongers, Caira
Math130L	Introduction to Statistics Lab	1	Bongers, Caira
Math151	Calculus II (QR)	4	Simonetti, Neil
Math490	Senior Essay	1	Simonetti, Neil
Phil340	Bioethics (Moral)	3	Latta, Marcy
Phil342	Ethics and Computing Technology (Moral)	3	Frazier, Thomas McKinley
Phys210	Principles of Physics I (QR)	3	Laudari, Sunil
Phys210L*	Principles of Physics I - Lab	1	Laudari, Sunil
PSci212	International Relations	3	Hodgell, Reid
Psyc101	Introductory Psychology	3	Cavallo, Fernando
Psyc380	Forensic Psychology	3	Rogers, Kiri K.
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Schnarr, Grant
Rel210	Divine Providence and Human Prudence (SpDoc)	3	Genzlinger, Matthew
Rel311	Continuation of Studies in Arcana Coelestia (W)(SpDoc)	3	Glenn, Thane
SpEd312	Classroom Assessments	3	Larcher, Elizabeth Ann
Writ101	Expository Writing (W)	3	Pine, Ryan E.
Writ202	Writing About Literature (W) (IL)	3	Cooper, Robin

+This course is offered on multiple levels. All students must register on the 100 level.

*This course requires a lab fee.

The College administration will make every effort to offer the courses listed, but reserves the right to cancel courses if necessary.

Winter Term 2026-27 Undergraduate Courses

Anthropology

Anth240. Anthropology of Religion.

This course presents a theoretical perspective on religion as a cultural phenomenon. Explores the functional relationships within a variety of belief systems. It compares them across cultures and time, and, in particular, considers their intersections with subsistence strategies and political systems. Topics include: the roles of symbols and practitioners, myth and ritual, magic and cultic practice, & secularism and fundamentalism in traditional and world religions.

3 credits.

Anth320. Genocide.

Seminar course on genocides in the 20th century. Focuses primarily on the cases of Ottoman Armenia, the Holocaust, and Rwanda. Through primary and secondary literature, examines the cultural context, historical background and legal frameworks, denialist projects, and memorializations. Political and psychological ramifications in the descendant communities of victims and victimizers are considered, as well as reparation processes.

3 credits.

Biology

Bio123. Introduction to Biology: Molecular Biology.

The second of a two-course gateway series that is required for prospective biology majors. Biological concepts are illustrated by means of molecular biology, from storage and maintenance of biological information necessary for life to its expression in the organism to diverse applications in health, medicine and food production. Topics include a general introduction to the cell and its components, DNA and RNA structure, DNA replication, chromosome structure and organization, the genetic code, transcription, translation and proteins, gene mutations and DNA repair, regulation of gene expression in prokaryotes and eukaryotes, epigenetics, cancer and the regulation of the cell cycle, recombinant DNA technology, CRISPR-Cas, applications of genetic engineering and biotechnology, genetically modified foods, DNA forensics, and gene therapy. This course and the related laboratory must be taken together.

3 credits.

Bio123L. Introduction to Biology: Molecular Biology Lab.

This course requires a lab fee. This course and the related lecture course must be taken together.

1 credits.

Lab fee \$37

Bio245. Zoology.

Exploration of the animal kingdom, including: systematics, anatomy, and physiology. Topics consist of basic concepts of zoology, diversity of major groups of invertebrate and vertebrate animals, evolutionary

relationships, structure and function of vertebrate and invertebrate organ systems, and evolutionary development of organ systems. Includes a lab with hands-on activities focused on selected taxa. This course and the related laboratory must be taken together.

3 credits.

Bio245L. Zoology Lab.

This course and the related lecture course must be taken together.

1 credits.

Lab fee \$27

Bio495. Senior Project.

Independent research project or scholarly study under the supervision of faculty members. Topic chosen by mutual agreement between student and supervisor. Limited to and required of biology majors. Senior project proposals are required in the spring of junior year.

3 credits.

Business

Bus142. Accounting II (QR).

Interpretation of financial statements and the use of accounting information as a tool for making business management decisions. Use of computer spreadsheets emphasized.

3 credits.

Bus301. Business Ethics (Moral)(PP).

The analysis of moral principles and their application to decision making in business. Includes an overview of philosophical and theological ethical theories, including New Church ethics. Major focus on the analysis of ethical concerns in actual case studies from business, involving issues such as downsizing, whistle-blowing, competition vs. cooperation, and social responsibility.

3 credits.

Bus321. Topics in Finance.

Examination of a selected topic in financial management. Specific title announced in the course bulletin when offered. May be repeated when different topics are offered.

3 credits.

Bus495. Senior Capstone Project.

Capstone experience for the Interdisciplinary Major. Writing of the senior project based on the research and outline produced in Business 493.

2 credits.

Lead130. Introduction to Leadership (EE).

This course engages students in the basic tools necessary to become a successful leader. Students design a leadership project and review leadership theories. Students analyze leadership characteristics and target an area for their own strengthening. Students set measurable goals that stretch their capabilities through leadership challenges and homework assignments.

3 credits.

Chemistry

Chem110. General Chemistry I.

First year chemistry course for science majors. Topics include atomic structure, quantum mechanics, electron configuration, chemical bonding, molecular geometry, and the periodic table, classifications of matter, stoichiometry, and reactions in solution, gases, and thermochemistry. First half of sequence with Chemistry 111. This course and the related laboratory must be taken together.

3 credits.

Chem110L. General Chemistry I Lab.

This course and the related lecture course must be taken together.

1 credits.

Lab fee \$37

Communication

Comm105. Public Speaking (PP).

Exposure to a variety of speaking situations designed to develop self-confidence. Class work features impromptu and prepared speeches. Work on voice and speech improvement as well as command of body language. Attention to effective strategies for professional presentations and public speaking, both face-to-face and online.

3 credits.

Comm230. Intermediate Graphic Design.

This course is a continuation of the graphic design instruction and practice begun in Communications 130 with more emphasis on real-world creative problem-solving. Projects have included branding, book jackets, posters, publication design and more. Additional emphasis will be placed on Adobe software proficiencies and the business of graphic design.

3 credits.

Lab fee \$32

Computer Science

CSci180. Structured Programming (QR).

Language elements and applications. Algorithm development. Introduction to object-oriented programming. 3 credits.

CSci255. Topics in Computer Science: an Introduction to Algorithms for AI.

Examination of a selected topic in computer science. Specific title announced in the course bulletin when offered. May be repeated when different topics are offered.

Prerequisite: Computer Science 180 or permission of instructor. Additional prerequisites may be required depending on the topic.

3 credits.

CSci490. Senior Essay.

Capstone writing experience for the Interdisciplinary major with Computer Science. This course includes a presentation on the student's chosen topic. May be taken as an honors course.

3 credits.

Economics

Econ131. Macroeconomics (QR).

Study of the fundamentals of economic analysis with emphasis upon national output, employment, and price levels. Exploration of the monetary and financial system together with problems of economic stability. Special attention given to the role of government fiscal and monetary policy in managing the economy.

Consideration of current issues such as economic growth, federal budget deficits, and the role of the Federal Reserve Bank. Course includes student-led seminars.

3 credits.

Education

Ed218. Literacy Instruction for Young Learners I.

This course exposes students to theory and practice in literacy instruction, pre-kindergarten through grade 4. Emphasis on emergent literacy, techniques and skills of teaching reading and language arts, evaluation and assessment. Includes 1 credit hour of ELL.

3 credits.

Ed323. Math and the Young Child.

Exploration of the content and methods of teaching mathematics Pre-K to 4th grade. Emphasis on a problem-solving approach to the teaching of math within the context of a developmentally appropriate

curriculum. Students learn how to engage children in the subject through imaginative, musical, rhythmic, athletic, and artistic activities. This course is about how to teach math so it makes sense.
3 credits.

Ed330. Lesson Planning Seminar.

In this seminar students discuss the PA competencies in relation to their field experience placement. Lesson planning skills are practiced using the PA standards for Health, Safety, and Physical Education. Other classroom teaching skills practiced include writing on a vertical surface and leading students in creative movement and "brain breaks."
1 credits.

Ed402. Student Teaching (EE).

Includes at least 12 weeks of combined observation and teaching in an early childhood education classroom setting, supervised by a teacher from Bryn Athyn College Education Department and by a classroom teacher in the cooperating school. Open only to seniors in the education major.
3 credits.

FE2. Field Experience II: Exploration.

Students work under a classroom teacher's supervision tutoring children, facilitating small group conversations, supervising outdoor play, and monitoring classroom routines and procedures. FE II is taken in conjunction with all winter term courses of the third year and provides students with 120 hours of observation and practice teaching. FE II occurs every Monday and Wednesday of the term. Not open to non-majors; third-year students only.
3 credits.

SpEd312. Classroom Assessments.

This course addresses the effective use of assessment as part of classroom instruction, and as part of the eligibility determination process for special education services. Students will gain hands-on experience with administering and interpreting a variety of assessment tools and will learn how to appropriately adapt instruction based on assessment findings.
3 credits.

English

Eng218. American Literature I.

Chronological survey of American writers from colonial times to the mid-19th century. Particular attention to themes such as nature, religion, freedom, slavery, and the shaping of American values and identities.
3 credits.

Eng320. The English Language.

Study of the historical development of the language from Anglo-Saxon to Modern English, with focus on the culture and events that have shaped the language and ways in which English has shaped cultures.
3 credits.

Fine Arts

FA140. Drawing and Painting.

Introduction to basic techniques in drawing and painting. Oil painting project. Discussion of the development of the history of painting.

3 credits.

Lab fee \$105

German

Germ102. Introductory German II.

Continuing introduction to the German language. German is the language of instruction.

3 credits.

History

Hist105. Topics in History: Epic Middle Ages.

Examination of a selected historical theme or time period. Specific title announced in the course bulletin when offered. May be repeated when different topics are offered.

3 credits.

Human Society

HSoc402. Capstone Seminar II (W).

Students in the Human Society major write their capstone projects. The seminar setting provides instruction in related skills and offers a forum for support and the exchange of ideas. As part of the seminar, students present the results of their research publicly and design posters. Open to Human Society majors.

3 credits.

Latin

Lat110. Beginning Latin I.

Introduction to the elements of Latin grammar and syntax to be used in translating classical authors and Swedenborg.

3 credits.

Mathematics

Math110. Mathematics for Business (QR).

This course focuses on quantitative methods for decision making and problem solving for students in business and related fields. The course includes some review of the fundamentals of algebra, linear and quadratic equations, functions and graphs involving supply, demand, revenue, cost, and profit, concepts of marginal cost and profit, as well as other business and financial related functions. The course will also include reading and producing data visualizations for business purposes. Students will use Excel extensively in this course.

3 credits.

Math130. Introduction to Statistics (QR).

Introduction to data analysis, random variables and their distributions, correlation, and statistical inference. Statistical software used for graphing and data analysis. Independent research project. Recommended for students of business or the social and natural sciences.

3 credits.

Math130L. Introduction to Statistics Lab.

This is the corequisite lab portion of Math130.

1 credits.

Math151. Calculus II (QR).

Methods and applications of integration, improper integrals, infinite series, Taylor polynomials, and parametric equations.

4 credits.

Math490. Senior Essay.

Capstone writing experience for the Mathematics or Interdisciplinary major with Mathematics. This course includes a presentation on the student's chosen topic. May be taken as an honors course. 1-3 Credits

1 credits.

Philosophy

Phil340. Bioethics (Moral).

A philosophical exploration of the ethical issues pertaining to the application of biological information and technology to the generation, alteration, preservation, and destruction of human life and aspects of our environment. Issues to be considered include: reproduction, euthanasia, genetic screening and therapy, experimentation with human and animal subjects, bio enhancement, ownership and nature, distributive justice, and integrity in publication.

3 credits.

Phil342. Ethics and Computing Technology (Moral).

Topics considered include privacy, freedom of speech, cybercrime and security, intellectual property, error and risk, artificial intelligence, evaluating technology. Overview of normative ethical theories. Application of ethical theories and professional codes to real cases.

3 credits.

Physics

Phys210. Principles of Physics I (QR).

Calculus-based course providing an introduction to rigid body mechanics, gravity, waves, and heat. Problem and laboratory assignments complement the lectures. This course and the related laboratory must be taken together.

3 credits.

Phys210L. Principles of Physics I - Lab.

This course and the related lecture course must be taken together.

1 credits.

Lab fee \$37

Political Science

PSci212. International Relations.

Examination of historical and theoretical foundations for thinking about international relations. Topics include: peace and conflict, international law, intervention, and terrorism. Recommended: Political Science 101 or History 117.

3 credits.

Psychology

Psyc101. Introductory Psychology.

Introduction to basic constructs of psychology including scientific methodology, the brain, consciousness, memory, identity, learning, motivation, intelligence, and the nature of mental illness. Relevant New Church doctrines analyzed and compared to secular theories of psychology.

3 credits.

Psyc380. Forensic Psychology.

Covers topics related to the application of psychology to the legal system. Topics include criminal motivation, deception, violence, sociopathy, mental illness and crime, gang behavior, effects of substance abuse, and gender differences in criminals. Includes a Swedenborgian perspective on conscience and moral/spiritual motives. Applied.

3 credits.

Religion

Rel101. Introduction to New Church Doctrines (SpDoc).

Foundation course. Basic survey of the doctrines of the New Church. Presupposes little or no formal background in the study of the doctrines.

3 credits.

Rel210. Divine Providence and Human Prudence (SpDoc).

The laws and fundamental principles by which the Lord governs creation. How the Lord removes evil from people while preserving their freedom. How the Lord brings good out of evil. Eternal life as the goal of providence. How providence uses natural conditions to serve this end. Why providence operates in secret.

Text: Divine Providence.

3 credits.

Rel311. Continuation of Studies in Arcana Coelestia (W)(SpDoc).

Study of Emanuel Swedenborg's first publication of theology for the New Church. The course provides an overview of the work's spiritual exegesis of Genesis and Exodus-from the first mythopoeic stories of creation to the Israelites' escape from slavery in Egypt. Special focus on the Moses story, and how the narrative of Jehovah's call to humankind contains an ancient picture of our redemption process.

3 credits.

Writing

Writ101. Expository Writing (W).

Development of informative, analytic, and persuasive writing. Emphases on grammatical control, precision of language, consideration of audience, rhetorical strategies, revision, information literacy, and articulation, development, and support of thesis. Three to four formal essays, including substantial revision work.

Individual conferences with instructor to discuss students' writing. Required of first year students. English language learners who want to take Writing 101 in their first year need permission of the Language and Literature department chair.

3 credits.

Writ202. Writing About Literature (W) (IL).

Second-year requirement of all students. Analytic study of three or more literary genres, with emphases on writing and research. Assumes basic skills in writing and information literacy covered in Writing 101. Three formal essays, including substantial revision. One longer essay and its accompanying research process require locating, evaluating, and incorporating multiple secondary sources. Individual conferences with instructor to discuss students' writing. Required of second-year students. Dean's permission required for deferral to third year.

3 credits.

Spring Term 2026-27 Undergraduate Course List

As of 9/16/26. (Independent Study and Internship courses not listed).

Code	Course Name	Credits	Instructor
Anth110	An Introduction to Cultural Anthropology	3	Yardumian, Aram
Bio232	Cell Structure and Function	3	Bryntesson, A. Fredrik
Bio235	Ecology	3	Potapov, Eugene R.
Bio235L*	Ecology Lab	1	Potapov, Eugene R.
Bio250	Microbiology	3	Evans, Stella R.
Bio250L*	Microbiology Lab	1	Evans, Stella R.
Bio355	Cancer Biology	3	Bryntesson, A. Fredrik
Bio380	Research Seminar (IL)(PP)	1	Evans, Stella R.
Bio492	Biology Seminar III	1	Potapov, Eugene R.
Bus/ES272*	Drone Applications in Business and Science	3	Potapov, Eugene R.
Bus/Mth380	Linear Models and Methods for Optimization (QR)	3	Simonetti, Neil
Bus/Wrt220	Business Communications (W)	3	Williams, Mary
Bus257	Principles of Management	3	Alden, Micah A.
Bus302	Corporate Social Responsibility	3	Rogers, Elizabeth
Bus390	Research Seminar(IL)	2	King, Ethan
Chem111	General Chemistry II	3	McMackin, Grace Rose
Chem111L*	General Chemistry II Lab (QR)	1	McMackin, Grace Rose
CSci160	World Wide Web Development	2	Simonetti, Neil
CSci260	World Wide Web Languages	1	Simonetti, Neil
Econ232	Intermediate Microeconomics	3	King, Ethan
Ed128	Introduction to the Theory and Practice of Education	3	Wong, Sarah
Ed219	Literacy for Young Learners II	3	Rose, Angela N.
Ed402	Student Teaching (EE)	3	Wong, Sarah
Eng217	Great Books III. 19th and 20th Centuries	3	Cooper, Robin
Eng219	American Literature II	3	Pine, Ryan E.
Eng499	English Major Capstone Project	1	Pine, Ryan E.
FA128*	Stained Glass I	3	Simons, Bronwyn M.
FE3	Field Experience III: Pre-Student Teaching	3	Rose, Angela N.
His/Ant312	European Folk and Fairy Tales	3	Lawing, Sean
Hist217	Nazi Germany	3	Lawing, Sean
Hist257	Women in Classical Antiquity (PP)	3	Closterman, Wendy
Lat111	Beginning Latin II	3	Frazier, Scott Innes
Math311	Ordinary Differential Equations	3	Bongers, Caira

Mus100	College Chorale	1	Bier, Graham
Phil101	Critical Thinking	3	Cole, Stephen
Phil280	Ethics-Leadership (H)	3	Latta, Marcy
Psyc212	Health Psychology	3	Rogers, Kiri K.
Rel115	Introduction to New Church Doctrine on Life After Death (SpDoc)	3	Schnarr, Grant
Rel123	Introduction to the Old and New Testaments (SpScript)	3	Genzlinger, Matthew
Rel190H	Principles of Expression	1	Glenn, Thane
Rel215	The Lord (SpDoc)	3	Glenn, Thane
Rel335	The Human Mind (SpAppl)	3	Cole, Stephen
SpEd313	Evidence-Based Interventions	3	Larcher, Elizabeth Ann
Writ202	Writing About Literature (W) (IL)	3	Cooper, Robin

+This course is offered on multiple levels. All students must register on the 100 level.

*This course requires a lab fee.

The College administration will make every effort to offer the courses listed, but reserves the right to cancel courses if necessary.

Spring Term 2026-27 Undergraduate Courses

Anthropology

Anth110. An Introduction to Cultural Anthropology.

Introduction to the theories and methods of cultural anthropology, and to the concept of culture. Though not a world cultures course, focuses on the basic institutions of culture such as ritual, technology, and progress as predicates for modern human society.
3 credits.

His/Ant312. European Folk and Fairy Tales.

An investigation of European folk and fairy tales and their relevance for understanding the societies that produced them. Provides a survey of major collections and introduces students to critical approaches to folk literature. Considerations of Hollywood adaptations and the continuing impact of folk and fairy tales on modern popular culture.
3 credits.

Biology

Bio232. Cell Structure and Function.

Study of the structure-function relationship in cells. Illustration of molecular principles upon which cellular structure and function depend. Foundation course for all other molecular biology courses.
3 credits.

Bio235. Ecology.

Study of the physical, chemical, and biological processes that determine the distribution and abundance of plants, animals, and microbial life. Energy flow, food webs, adaptation of species, population dynamics, species interactions, nutrient cycling, and ecological succession. This course and the related laboratory must be taken together.
3 credits.

Bio235L. Ecology Lab.

This course and the related lecture course must be taken together.
1 credit.
Lab fee \$37

Bio250. Microbiology.

Introduction to the morphology, physiology, genetics, and ecology of bacteria and fungi, as well as the structure and replication of viruses. Overview of microorganisms, with emphasis on those organisms involved in the natural history of human disease. This course and the related laboratory must be taken together.
3 credits.

Bio250L. Microbiology Lab.

This course and the related lecture course must be taken together.

1 credit.

Lab fee \$37

Bio355. Cancer Biology.

This course provides an overview of the biology of cancer with an emphasis on molecular mechanisms that underlie this disease. Course topics include a general description of what cancer is; the cell cycle, growth factors and growth factor receptors and how they are related to cancer, cellular signaling mechanisms, tumor suppressors and oncogenes, apoptosis and how cancer cells evade apoptosis, the importance of cell immortalization in cancer, the multistep features of cancer development, heterotypic interactions, angiogenesis, how cancer cells spread from the primary tumor to form secondary tumors, and cancer therapies.

3 credits.

Bio380. Research Seminar (IL)(PP).

Students choose topics for senior project proposals and research methods for discipline specific literature searches. Senior project proposals with references are due by end of term. Two presentations are given in fulfillment of the Core public presentation requirement (PP). Discipline-specific resumes and C.V. developed. Course is for biology majors.

1 credit.

Bio492. Biology Seminar III.

Public presentation of undergraduate biological research. Required of seniors in the biology major and open to seniors in the ID major who are studying biology.

1 credit.

Business

Bus/ES272. Drone Applications in Business and Science.

Principles of applications of new technology in all possible fields, taking advantage of new FAA rule 107 provisions. The course explores current legislation and FAA rules, current innovation in drone use, limits of current off-the-shelf technologies, creative problem solving and business plan development.

3 credits.

Lab fee \$79

Bus/Mth380. Linear Models and Methods for Optimization (QR).

Introduction to basic methods of operations research. Review of linear systems; linear programming, including the simplex algorithm, duality, and sensitivity analysis; formulation of integer programs;

transportation and scheduling problems. This course has a computational component and can be used to fill a requirement in the Computer Science minor or ID area.

3 credits.

Bus/Wrt220. Business Communications (W).

Business Communications is a workplace-oriented course designed to help students develop and refine the written and oral skills necessary to communicate effectively in professional settings. Students will review the purpose and style of business writing and complete a variety of focused writing exercises based on work settings and scenarios. Students will plan, compose, and analyze letters, memoranda, and electronic messages. They will also prepare and deliver brief oral presentations, collaborate with others, and revise business communication.

3 credits.

Bus257. Principles of Management.

Fundamentals of management including the contributions of F.W. Taylor, Peter F. Drucker, and W. Edwards Deming. Special attention to business ethics, leadership, the Quality Movement, and ISO Teamwork 9000 certification. Group projects, business seminars.

3 credits.

Bus302. Corporate Social Responsibility.

This course includes application of New Church/Swedenborgian ethical responsibility in business strategic planning and management. Particular focus on corporate leaders who are using an ethical worldview when partnering with government regulators, donating to non-profits through foundations, or managing sustainable supply chains. Students will strengthen their teamwork skills in various class projects. Ethical reasoning theories are drawn from psychology and theology to explain the socially responsible actions of corporate leaders.

3 credits.

Bus390. Research Seminar(IL).

For juniors in the Business Major. Focus on preparing to do the senior capstone project. Explore topics and research questions. Research scholarly sources related to a chosen topic. Formulate draft thesis statement based on interest and research.

2 credits.

Chemistry

Chem111. General Chemistry II.

Continuation of Chemistry 110. Topics include intermolecular forces, physical properties of solutions, chemical kinetics, chemical equilibrium, acids and bases, solubility, thermodynamics, and electrochemistry.

This course and the related laboratory must be taken together.

3 credits.

Chem111L. General Chemistry II Lab (QR).

This course and the related lecture course must be taken together.

1 credit.

Lab fee \$37

Computer Science

CSci160. World Wide Web Development.

Introduction to the elements of web site design. The course includes technical aspects of web creation and design considerations for information delivery and usability.

2 credits.

CSci260. World Wide Web Languages.

Companion course with Computer Science 160. Projects will involve JavaScript, PHP, and XML.

1 credit.

Earth and Environmental Science

Bus/ES272. Drone Applications in Business and Science.

Principles of applications of new technology in all possible fields, taking advantage of new FAA rule 107 provisions. The course explores current legislation and FAA rules, current innovation in drone use, limits of current off-the-shelf technologies, creative problem solving and business plan development.

3 credits.

Lab fee \$79

Bio235. Ecology.

Study of the physical, chemical, and biological processes that determine the distribution and abundance of plants, animals, and microbial life. Energy flow, food webs, adaptation of species, population dynamics, species interactions, nutrient cycling, and ecological succession. This course and the related laboratory must be taken together.

3 credits.

Bio235L. Ecology Lab.

This course and the related lecture course must be taken together.

1 credit.

Lab fee \$37

Economics

Econ232. Intermediate Microeconomics.

An intermediate treatment of microeconomic thinking. Topics include consumer behavior, production, competition, externalities and the entrepreneurial function. This course will also explore the origins of economic theory.

3 credits.

Education

Ed128. Introduction to the Theory and Practice of Education.

Aspects of a career in teaching are explored. Topics include: teaching as a profession, educational philosophies, current trends in education and best practices in classroom instruction. Students observe classes at the Bryn Athyn Church School, and participate in at least three field trips to other schools.

3 credits.

Ed219. Literacy for Young Learners II.

This course prepares pre-service teachers for teaching language arts in early childhood (pre-K to 4th grade). How to assess the work of young writers and design instruction to advance their composition skills. Best practices for addressing phonological awareness, decoding, fluency, vocabulary, comprehension, spelling, and handwriting.

3 credits.

Ed402. Student Teaching (EE).

Includes at least 12 weeks of combined observation and teaching in an early childhood education classroom setting, supervised by a teacher from Bryn Athyn College Education Department and by a classroom teacher in the cooperating school. Open only to seniors in the education major.

3 credits.

FE3. Field Experience III: Pre-Student Teaching.

A continuation of FE II, FE III gives students more independent practice in working with whole class instruction and integrating special needs and ELL students in their assigned classroom. Provides 120 hours of practice teaching hours. Not open to non-majors; third-year students only.

3 credits.

SpEd313. Evidence-Based Interventions.

This course examines models of effective specialized instruction in a variety of content areas, with a focus on literacy. Emphasis on using assessment data to inform and guide effective instruction and intervention. Exploration of multi-sensory methods and programs for addressing the needs of students with disabilities within the general education curriculum. Undergraduate students can earn graduate credit by completing additional coursework.

3 credits.

English

Eng217. Great Books III. 19th and 20th Centuries.

Study of selected 19th and 20th Century texts in relation to the concept of literary canons and the effects of changing narratives, readerships, and social values.

3 credits.

Eng219. American Literature II.

Chronological survey of late 19th and early 20th-Century American authors.

3 credits.

Eng499. English Major Capstone Project.

Writing project for the English and Communications major. Supplemental to a 300-level English course, this credit involves extended independent research and writing beyond the scope of the course.

1 credit.

Fine Arts

FA128. Stained Glass I.

Introduction to stained glass techniques, including cutting and cold-shaping of glass, panel design, painting on glass, copper foil and leading techniques. Projects include study of and response to examples in the Glencairn Museum and Bryn Athyn Cathedral.

3 credits.

Lab fee \$158

History

His/Ant312. European Folk and Fairy Tales.

An investigation of European folk and fairy tales and their relevance for understanding the societies that produced them. Provides a survey of major collections and introduces students to critical approaches to folk literature. Considerations of Hollywood adaptations and the continuing impact of folk and fairy tales on modern popular culture.

3 credits.

Hist217. Nazi Germany.

Examination of the rise and fall of Nazi Germany under Adolf Hitler and a consideration of contributing historical, social, economic, and political factors. Particular focus on the impact on German society, individual choice, and philosophies underpinning Nazism: fascism, cult of personality, eugenics, anti-Semitism, social Darwinism.

3 credits.

Hist257. Women in Classical Antiquity (PP).

Examination of the social roles and experiences of women in ancient Greece and Rome using archaeological and textual evidence. Topics include stages of life, women's occupations, women's experiences in the household, religion, and public settings, women and the law, and women and medicine. Particular consideration of the challenges presented by the ancient evidence and of the distinction between ideological views and actual lived experiences.

3 credits.

Latin

Lat111. Beginning Latin II.

Continuation of Latin 110.

3 credits.

Mathematics

Bus/Mth380. Linear Models and Methods for Optimization (QR).

Introduction to basic methods of operations research. Review of linear systems; linear programming, including the simplex algorithm, duality, and sensitivity analysis; formulation of integer programs; transportation and scheduling problems. This course has a computational component and can be used to fill a requirement in the Computer Science minor or ID area.

3 credits.

Math311. Ordinary Differential Equations.

Linear, second-order, and systems of differential equations and Laplace transforms.

3 credits.

Music

Mus100. College Chorale.

Development and performance of choral repertoire from Renaissance to Modern. Instruction in the development of vocal techniques. Course may be repeated for credit.

1 credits.

Philosophy

Phil101. Critical Thinking.

Development of students' reasoning skills through analysis and evaluation of arguments. Diagraming arguments, identifying mistakes in reasoning, and writing arguments. Emphasis on issues encountered in everyday experience and in courses across the curriculum, primarily through inductive and deductive logic.

3 credits.

Phil280. Ethics-Leadership (H).

This honors seminar explores the relationship between ethics and leadership, understood broadly to encompass both formal positions of influence and the quiet, everyday acts of integrity that define true leadership. Through close study of great books from philosophy, history, political theory, natural sciences, literature, and religion — alongside contemporary authors and ethical case studies — students will examine how ethical principles shape leadership, character, and judgment. This interdisciplinary humanities seminar features a flexible reading list, which may vary at the instructor's discretion. Readings include selections from classical, modern, and contemporary thinkers such as Plato, Aristotle, Thucydides, Confucius, Shakespeare, Kant, Machiavelli, Kuhn, Wollstonecraft, M. L. King, Jr., Nussbaum, J. M. Burns, and Swedenborg. Enrollment is limited to students in Bryn Athyn College's Ethical Foundations honors program or by instructor permission. May not be used to fulfill Core requirements.

3 credits.

Psychology

Psyc212. Health Psychology.

Health psychology examines how psychological states influence physical health in a variety of ways. The three central issues of focus in this course are the promotion and maintenance of health (e.g., how psychological factors influence health-promoting and health compromising behaviors), the development of illness (e.g., how psychological factors influence the development and progression of disease), and the treatment of illness (e.g., how psychological factors influence the management of illness).

3 credits.

Religion

Rel115. Introduction to New Church Doctrine on Life After Death (SpDoc).

New Church teachings on the life after death studied in their own context, as well as related material, which may include a comparison of teachings from other religions and cultures on the subject, as well as reference to the near-death experience. Some version of Swedenborg's Heaven and Hell will be the central focus.

3 credits.

Rel123. Introduction to the Old and New Testaments (SpScript).

Introduction to the various parts of the Bible, the history of the Israelites and Jews, the geography of Palestine, with an emphasis on the different methods of biblical interpretation, with special emphasis on New Church interpretation.

3 credits.

Rel190H. Principles of Expression.

Exploration of the value of “ultimates”—the power of putting ideas into external action. The course's investigation of principles of expression focuses particularly on New Church concepts framing the way in

which inner spirit is expressed in outward forms. Limited to students enrolled in Bryn Athyn's Ethical Foundations honors program. May not be used to fulfill Core requirements.

1 credits.

Rel215. The Lord (SpDoc).

Introduction to New Church teachings about the Lord. Who is the God of the Biblical testaments? What was Jesus Christ's life on earth about? Special focus on seeing the Lord in the Scriptures, in scholarship, and in the teachings for a New Church.

3 credits.

Rel335. The Human Mind (SpAppl).

Study of what the doctrines of the New Church teach about the structure and function of the human mind and how it relates to the brain. The discrete degrees of the mind. The faculties of will and understanding, their relationship and interplay.

3 credits.

Writing

Bus/Wrt220. Business Communications (W).

Business Communications is a workplace-oriented course designed to help students develop and refine the written and oral skills necessary to communicate effectively in professional settings. Students will review the purpose and style of business writing and complete a variety of focused writing exercises based on work settings and scenarios. Students will plan, compose, and analyze letters, memoranda, and electronic messages. They will also prepare and deliver brief oral presentations, collaborate with others, and revise business communication.

3 credits.

Writ202. Writing About Literature (W) (IL).

Second-year requirement of all students. Analytic study of three or more literary genres, with emphases on writing and research. Assumes basic skills in writing and information literacy covered in Writing 101. Three formal essays, including substantial revision. One longer essay and its accompanying research process require locating, evaluating, and incorporating multiple secondary sources. Individual conferences with instructor to discuss students' writing. Required of second-year students. Dean's permission required for deferral to third year.

3 credits.