

BRYN ATHYN COLLEGE

2021-22

Undergraduate  
Course Bulletin

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**BRYN ATHYN COLLEGE CALENDAR FOR ACADEMIC YEAR 2021-22:  
ONE HUNDRED and FORTY-FOURTH ACADEMIC YEAR**

2021

June	10	Thursday	Graduate Summer Session begins
August	3	Tuesday	Graduate Summer Session ends
	17	Tues	Start-of-year employee meeting
	18	Wed	Faculty retreat
	22	Sun	New Students (US and International) arrive on campus
	23-24	Mon-Tues	Orientation for new students
	25	Wed	All returning students arrive on campus
	25	Wed	Open advising for all students
	25	Wed	President's Welcome for all students
	26	Thurs	Fall Term classes begin
September	6	Mon	Labor Day holiday
October	8	Fri	Charter Day
	15-27	Fri-Wed	Registration for Winter Term
	21	Thurs	All college in-service day—Majors and Career Day
November	4	Thurs	Final day of Fall Term classes
	5	Fri	Reading day
	8	Mon	Exams begin
	11	Thurs	Fall Term ends after Thursday exams
	25	Thurs	Thanksgiving holiday
	28	Sun	Resident students return
	29	Mon	Winter Term classes begin
December	17	Fri	Christmas vacation begins after Friday classes
2022			
January	2	Sun	Resident students return
	3	Mon	Classes resume
	17	Mon	Martin Luther King, Jr. holiday (no classes)
February	1-10	Tues-Thurs	Registration for Spring Term
	17	Thurs	Final day of Winter Term classes
	18	Fri	Reading day
	21	Mon	Exams begin
	24	Thurs	Winter Term ends after Thursday exams
March	8	Tues	Resident students return
	9	Wed	Spring Term classes begin
	21-25	Mon-Fri	Phase I Registration
	28-4/1	Mon-Fri	Phase II Registration
April	15	Fri	Good Friday holiday (no classes)
	18	Mon	Easter Monday holiday (no classes)
	19-22	Tues-Fri	Phase III Registration
May	17	Tues	Final day of Spring Term classes
	18	Wed	Reading day
	19	Thurs	Exams begin
	24	Tues	Final day of exams
	27	Fri	Graduation Reception
	28	Sat	Graduation
	30	Mon	Memorial Day Holiday
June	2	Thurs	End-of-Year Employee Meeting and End of Year Employee Gathering

## 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 is necessary for 15.5-17 credits. Overload credits (15-17) 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
- **Building Arts:** FA101, FA102, FA122, FA128, FA140, FA141, FA120 or 125 or 130
- **Education:** Ed128, ESci110, Geog110, any 100-level History course, two math courses, Phil102
- **English and Communications:** Comm 105; Comm130 or 230; Writ 202 (if eligible); Eng 105 and/or 110 (if taken twice or in combination can satisfy 200-level lit)”

- **Fine Arts ID:** FA 101 or 102
  - Studio Arts Track: one studio or art history course
  - Dance ID: one dance course (other than ensemble), Dan120
- **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
- **Philosophy ID:** Phil101, Phil102
- **Psychology:** Psyc101, Bio122 and 122L, Math130, Psyc201 or 203, Psyc204 or 220, and 9 credits in either education, sociology, or anthropology
- **Religion:** Rel110, Rel205, Phil102, Phil11

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](#)).

## Graduation Applications

If you are planning to graduate this May, print and complete the graduation application ([Academic Program Forms | 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://www.BrynAthynSonis.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 2021-22 Undergraduate Course List

As of 8/16/2021. (Independent Study and Internship courses not listed).

COURSE	TITLE	CREDITS	INSTRUCTOR
Bio122 (0)	Introduction to Biology: Genetics and Evolution	3	Bryntesson, A. Fredrik
Bio122 (1)	Introduction to Biology: Genetics and Evolution	3	Bryntesson, A. Fredrik
Bio122L (0)	Introduction to Biology: Genetics and Evolution Lab (W)	1	McMackin, Grace Rose
Bio122L (1)	Introduction to Biology: Genetics and Evolution Lab (W)	1	McMackin, Grace Rose
Bio122L (2)	Introduction to Biology: Genetics and Evolution Lab (W)	1	McMackin, Grace Rose
Bio122L (3)	Introduction to Biology: Genetics and Evolution Lab (W)	1	Evans, Stella R.
Bio210	Human Anatomy and Physiology I	3	Higgins, Ed
Bio210L	Human Anatomy and Physiology I Lab	1	Higgins, Ed
Bio373 (0)	Biological Laboratory Techniques: Molecular Biology	2	Evans, Stella R.
Bio373 (1)	Biological Laboratory Techniques: Molecular Biology	2	Evans, Stella R.
Bio490	Biology Seminar I (IL)	1	Evans, Stella R.
Bus/Wrt220	Business Communications (W)	3	Rogers, Elizabeth
Bus141	Accounting I	3	King, Ethan
Bus254	Principles of Marketing	3	Swiski, Mark D.
Bus272	Drone Applications in Business and Science	3	King, Ethan
Bus290	Internship Preparation Seminar	1	Nash, Laura
Bus320	Financial Management (QR)	3	Waltrich, Christopher
Bus493	Senior Literature Review	2	King, Ethan
Bus494	Senior Seminar I	1	Synnestvedt, Dan
Chem101	Introduction to Chemistry	3	Higgins, Ed
Chem210	Organic Chemistry I	3	Higgins, Ed
Chem210L (1)	Organic Chemistry I -Lab	1	McMackin, Grace Rose
Comm105	Public Speaking (PP)	3	Pine, Ryan E.
CSci105	Introduction to Computer Systems	3	Simonetti, Neil
Dan160/260/360	Dance Ensemble (EEc)	1.5	Bostock, Jessica
Dan232	Jazz Dance	3	Bostock, Jessica
Dan240	Creative Movement and the Young Child	1.5	Bostock, Jessica
Dan493	Senior Literature Review	2	Bostock, Jessica
Econ131	Macroeconomics (QR)	3	Drabouski, John
Ed217	Language, Literacy, and Numeracy	3	Phillips, Nina Gunther
Ed271	Introduction to Early Childhood Education	3	Phillips, Nina Gunther
Ed322	Social Studies and the Young Child	3	Phillips, Nina Gunther
Ed324	Science and the Young Child	3	Rose, Angela N.
Eng110	Worldviews and Literature (Worldview)	3	King, Kristin
Eng255	Postapocalyptic Fiction (W)	3	Hoffman, Chandra
Eng360	Victorian Literature (IL)	3	King, Kristin
Eng495	Senior Seminar: Career Preparation	1	King, Kristin
FA101	Art History: Caves to Cathedrals (IL)	3	Kline, Jonathan D.
FA122	Forging	3	Holzman, Warren
FA128	Stained Glass I	3	DaCrema, Elizabeth T.
FA130	Ceramics	3	Orthwein, Christina
FA140	Drawing and Painting	3	Gyllenhaal, Martha
FA240	Intermediate Painting	3	Gyllenhaal, Martha

<b>FE1</b>	Field Experience I: Observation	3	Rose, Angela N.
<b>FESpEd</b>	Field Experience in Special Education	3	Wong, Sarah
<b>Geog110</b>	World Regional Geography	3	Yardumian, Aram
<b>Germ101</b>	Introductory German I	3	Lawing, Sean
<b>Hist115</b>	The Medieval World	3	Lawing, Sean
<b>Hist305</b>	International Order	3	Rose, D. Greg
<b>HSoc401</b>	Capstone Seminar I (IL)	3	Yardumian, Aram
<b>ID494</b>	Senior Seminar I	1	Synnestvedt, Dan
<b>Math095</b>	Preparation for Quantitative Reasoning	1	Genzlinger, Maret
<b>Math101</b>	Introduction to Quantitative Reasoning (QR)	3	Simonetti, Neil
<b>Math140</b>	Elements of Calculus (QR)	3	Bongers, Caira
<b>Math150</b>	Calculus I	3	Bongers, Caira
<b>Math150L (0)</b>	Calculus I Lab	1	Bongers, Caira
<b>Math150L (1)</b>	Calculus I Lab	1	Bongers, Caira
<b>Math493</b>	Senior Literature Review	2	Simonetti, Neil
<b>Math494</b>	Senior Seminar I	1	Synnestvedt, Dan
<b>Mus100</b>	College Chorale	1	Bier, Graham
<b>PE112</b>	Team Sports for Fun	1	Bryntesson, Hilary J.
<b>PE180</b>	Foundations of Physical Education	1	Jones, Scott
<b>Phil/PS220</b>	Political Thought (Civil)	3	Synnestvedt, Dan
<b>Phil102 (0)</b>	Introduction to Philosophy (Worldview)	3	Latta, Marcy
<b>Phil102 (1)</b>	Introduction to Philosophy (Worldview)	3	Latta, Marcy
<b>Phil321</b>	Swedenborg's Philosophy	3	Cole, Stephen
<b>Phil493</b>	Senior Literature Review	2	Synnestvedt, Dan
<b>PSci211</b>	Comparative Government (Civil)	3	Rose, D. Greg
<b>Psyc101</b>	Introductory Psychology	3	Rogers, Kiri K.
<b>Psyc201</b>	Abnormal Psychology	3	Rogers, Kiri K.
<b>Psyc203</b>	Personality Theory	3	Frey, Kurt
<b>Psyc205</b>	Social Psychology (PP)	3	Frey, Kurt
<b>Psyc230</b>	Psychology and Spirituality	3	Frey, Kurt
<b>Psyc341</b>	Human Development: Adult Altruism (EE)(Moral)	3	Nash, Laura
<b>Psyc490</b>	Research Methods in Psychology (IL)	3	Cavallo, Fernando
<b>Rel101 (0)</b>	Introduction to New Church Doctrines (SpDoc)	3	Genzlinger, Matthew
<b>Rel101 (2)</b>	Introduction to New Church Doctrines (SpDoc)	3	Genzlinger, Matthew
<b>Rel101 (3)</b>	Introduction to New Church Doctrines (SpDoc)	3	Glenn, Coleman
<b>Rel101 (4)</b>	Introduction to New Church Doctrines (SpDoc)	3	Schnarr, Grant
<b>Rel110</b>	Introduction to Systematic Theology (SpDoc)	3	Frazier, Scott Innes
<b>Rel215</b>	The Lord (SpDoc)	3	Glenn, Thane
<b>Rel220</b>	The Torah (SpScript)	3	Frazier, Scott Innes
<b>Rel372</b>	Spiritual Development for Educators (W)(SpAppl)	3	Silverman, Ray
<b>Rel380</b>	History of New Church Doctrine (IL)(SpAppl)	3	Cole, Stephen
<b>Soc110</b>	Introduction to Sociology	3	Rogers, Kiri K.
<b>SpEd111</b>	Introduction to Special Education	3	Wong, Sarah
<b>SpEd331</b>	Classroom Management and Behavioral Support	3	Ballard, Kelly M.
<b>SpEd334</b>	Assistive Technology in the Classroom	1	Goldynia, Kristine
<b>Thea120</b>	Scene Design (EE)	3	Haus-Roth, Naomi
<b>Writ100</b>	Academic Writing	3	Cooper, Robin

<b>Writ101 (0)</b>	Expository Writing (W)	3	Cantley, Erica
<b>Writ101 (2)</b>	Expository Writing (W)	3	Glenn, Thane
<b>Writ202</b>	Writing About Literature (W) (IL)	3	Pine, Ryan E.

+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 2021-22 Undergraduate Courses

## Biology

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### Biology 122. 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.

### Biology 122 Lab. Introduction to Biology: Genetics and Evolution Lab. (W)

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

1 Credit.

### Biology 210. Human Anatomy and Physiology I.

First trimester of a two-trimester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it. Includes the study of cells, tissues, fluid and electrolyte balance, acid-base balance and integumentary, skeletal, muscular and nervous systems. Identification of anatomical structures using a “virtual” cadaver and preserved animal specimens will be required in the laboratory. This course and the related laboratory must be taken together.

Prerequisites: High School Chemistry and Biology 122, 122L, 123, and 123L.

3 Credits.

### Biology 210 Lab. Human Anatomy and Physiology I Lab.

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

1 Credit.

### Biology 245. 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.

Prerequisites: Biology 122, 122L, 123, and 123L.

3 Credits.

### Biology 245 Lab. Zoology Lab.

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

1 Credit.

### **Biology 373. 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. This course requires a lab fee.

Co-requisites or prerequisites: Biology 230 and Biology 232.

2 Credits.

### **Biology 490. 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.

Prerequisite: Biology 380.

1 Credit.

## **Business**

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### **Business 141. Accounting I.**

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

3 Credits.

### **Business/Writing 220. 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.

Prerequisite: Writing 101.

3 Credits.

### **Business 254. 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.

### **Business 272. 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.

### **Business 290. 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.

1.5 Credits.

### Business 320. 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.

Prerequisite: Business 141.

3 Credits.

### Business 493. 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.

Prerequisite: Business 390.

2 Credits.

### Business 494. 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.

Prerequisite: Business 390.

1 Credit.

## Chemistry

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### Chemistry 101. Introduction to Chemistry.

Introduction to college chemistry. Course designed with two audiences in mind—students preparing for general chemistry, and non-science majors. No prior chemical knowledge assumed, but mathematical skills equivalent to Mathematics 100 expected. Topics covered include atomic theory, organization of matter, the mole concept, naming of chemical compounds, chemical bonding and reactions, phases of matter, and kinetics. Required of students who register for Chemistry 110 and have a math SAT score of 500 or lower (or the equivalent ACT score). This course has an associated laboratory that is not necessarily offered every time the course is offered. *When taken together*, they satisfy the Core science requirement. This course alone will not fulfill the requirement.

3 Credits.

### Chemistry 210. 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.

Prerequisite: Chemistry 111 and 111L.

3 Credits.

### Chemistry 210 Lab. Organic Chemistry I Lab.

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

Prerequisite: Chemistry 111 and 111L.

1 Credit.

## Communication

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### Communication 105. 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.

## Computer Science

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### Computer Science 105. Introduction to Computer Systems.

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.

## Dance

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### Dance 160/260/360. Dance Ensemble. (EEC)

A dance repertory course for the performing artist. Rehearsing and performing pieces choreographed by faculty and guest artists. Styles may include contemporary, jazz, hip-hop, ballet, and/or tap. Each student will be involved in several different pieces of choreography. Course culminates in public performance. Dance 260 includes collaboration on a choreography project or a solo choreography project. Dance 360 involves choreographing and teaching a group piece of choreography to the class to be performed at the end of term concert. Course may be repeated for credit.

1.5 Credits.

### Dance 232/332. Jazz Dance. (EEC)

Intermediate (Dance 232) and Advanced (Dance 332) course in Jazz dance technique. Students learn jazz dance technique and develop creativity, flexibility, coordination, and rhythm. Dan 232 includes choreography projects, and both levels culminate in a public performance at the end-of-term concert. Course may be repeated once for credit.

Prerequisite for Dance 232: Dance 120, Dance 132, or instructor's permission. Also serves as a PE course.  
3 Credits.

### Dance 240. Creative Movement and the Young Child.

This course will explore ways in which children develop through creative movement activities based on developmentally appropriate practice. Special emphasis will be placed on integrating creative movement with other learning activities. Students will have the opportunity to work on projects that incorporate creative movement with their own areas of interest as potential teachers/caregivers. Students will also explore multicultural elements of dance and movement.

1.5 Credits.

## Economics

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### Economics 131. 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

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### Education 217. Language, Literacy, and Numeracy.

This course prepares students for their role in the early childhood classroom. Many opportunities for application of best practices. Includes theories of language development. Special attention given to emergent language and language-rich environments. Includes 1 credit hour of ELL instruction.

3 Credits.

### Education 271. Introduction to Early Childhood Education.

This course focuses on the basic knowledges, skills and dispositions that prepare students to teach in early childhood classrooms. Teaching young children from a background of New Church spiritual philosophy, major theories and cultural perspectives. Emphasis on DAP (developmentally appropriate practice); integration of learning goals with children's play; diversity in the classroom; and the process of building a collaborative model with family and community. Includes theory and practice of Garden-based Learning.

3 Credits.

### Education 322. 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.

Prerequisites: Education 128 or 271.

3 Credits.

### Education 324. Science and the Young Child.

This course explores the nature of science, the nature of how young children conceptualize the world around them, and how to bring the study of the natural world to children in age-appropriate ways. Emphasis on the inquiry approach to teaching science. Includes garden-based learning projects: planting a fall garden and sprouting seeds.

3 Credits.

### 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.

3 Credits.

### Field Experience: 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 with exceptional children, experience the different types and levels of service delivery, and reflect on how, when, and why specific evidence-based practices are implemented. Student will start in the “Observation” phase and gradually take on increased responsibilities throughout the term.

Prerequisites: Special Education 111 and permission of the instructor. Not open to non-majors; third- or fourth-year students only.

3 Credits.

### Special Education 111. Introduction to Special Education.

An overview of key concepts, theories and practices of special education. Course begins with a role-playing game in which students learn about the milestone legislation, IDEA. Attention is given to the social and historical underpinnings of today's special education programming, as well as to the various types of learning needs in any given classroom. Students will learn to view “disabilities” from differing perspectives and gain appreciation for the variety of needs expressed in the human condition.

3 Credits.

### Special Education 331. 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; planning and delivering assessment-driven instruction; implementing Positive Behavior Intervention and Support (PBIS); and conducting a Functional Behavioral Analysis (FBA).

3 Credits.

### Special Education 334. Assistive Technology in the Classroom.

This course explores a variety of technologies used to assist persons with a wide range of exceptionalities. Universal Design for Learning is at the core of this course with a goal of adapting technology, instruction, and assessment to meet a range of student needs.

Prerequisites: Special Education 111 and permission of the education department chair.

1 Credit.

## English

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Literature courses in this discipline fill the aesthetic requirement of the Core Program. 200-level English courses require Writing 101 as prerequisite. 300+-level English courses require a 200-level English as prerequisite.

### English 110. Worldviews & Literature (Worldview).

Introduction to six worldviews in the context of literary texts. Emphasis on how characters with differing worldviews interact with others and with their geographic and historical contexts. Emphasis on close readings and critical analysis.

3 Credits.

### English 255. Post-Apocalyptic Fiction. (W)

Study of literary depictions of end-of-days and post-apocalyptic genre. Analysis of texts through plot and subplot, device, character, setting, and author intent. Use of current events and social, political, and historical context to examine the post-apocalyptic theme in other media (television and film). Analysis of other works in the genre, such as Young Adult counterparts (*Hunger Games*, *Maze Runner*, etc.). Creative project expressing student's own perception of the post-apocalypse.

Prerequisite: Writing 101.

3 Credits.

### English 360. Victorian Literature. (II)

Study of selected literary figures of England from 1830 to 1900, with emphasis on trends in religion, philosophy, and science, and on the literary genre of the novel.

Prerequisite: Any 200-level English course.

3 Credits.

### English 495. 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 graduates. Students network with alumni at a distance or in town to support an outreach effort requiring communication skills and fostering any aspect of the mission's focus on intellectual, moral, civil, and spiritual development.

1 Credit.

## Experiential Education

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### Experiential Education 198/298. Internship. (EE)

The internship course is open to students with a 2.5 GPA or above. It is a supervised, pre-professional experience with clear links to a student's academic program. It is conducted primarily or totally outside a regular course classroom, and for which a student earns academic credit. It is organized primarily around an assignment in a work-place situation in which students working under the direction of a supervisor learn hands-on professional skills.

The internship course requires a syllabus, reflective component, and an analytical component (e.g., essay, paper, or presentation). Individual syllabi are retained in the office of Internship. This course satisfies the EE requirement.

Course may be repeated for academic credit by arrangement.

Credit variable.

## Fine Arts

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### Fine Arts 101. Art History: Caves to Cathedrals (II).

Introductory survey of art and architecture from Prehistory through the European Middle Ages, including Ancient Near Eastern, Egyptian, Greek, Roman, Late Antique, and Medieval art. This course also serves as an introduction to the methods and practices of Art History as an academic discipline. Classroom study is complemented by visits to Glencairn Museum.

3 Credits.

### Fine Arts 122. Metal Forging.

Introduction to artistic ironwork concentrating on hand-forged, wrought iron using traditional techniques. Inspired by the magnificent examples in Glencairn and Bryn Athyn Cathedral. This course requires a lab fee.

3 Credits.

### Fine Arts 128. 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.

### Fine Arts 130. Ceramics.

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

This course requires a lab fee.

3 Credits.

### Fine Arts 140. Drawing and Painting.

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

This course requires a lab fee.

3 Credits.

### Fine Arts 240. Intermediate Painting.

Introduction of more materials and techniques as well as more advanced use of concepts learned in Fine Arts 140.

This course requires a lab fee.

Prerequisite: Fine Arts 140.

3 Credits.

## Geography

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### Geography 110. 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

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### German 101. 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

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### History 115. The Medieval World.

Historical survey of medieval Europe from the fall of Rome through the fourteenth century. Particular focus on religion and the role of the church throughout the middle ages. Extensive use of primary texts and Glencairn Museum's collections.

3 Credits.

### History 305. Topics in History: International Order.

Students take part in two historical role-playing games focusing on international negotiations surrounding events at the peace conference at Versailles after World War I and then the Rwanda crisis in 1994. Focus on developing skills—speaking, writing, critical thinking, problem solving, leadership, and teamwork—in order to prevail in elaborate and complicated simulations.

3 Credits.

### History 298, 398, 498. History Internship II. (EE)

Proposals must be approved by the appropriate department chair. History internships are open to students in second year or above who have completed at least two history courses.

Credit variable.

## Human Society

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### Human Society 401. Capstone Seminar. (IL)

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. Only open to Human Society majors.

3 Credits.

## Independent Studies and Honors Contracts

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In addition to the listed courses, departments may offer independent studies and honors contracts at the 200-level or above in a variety of fields. The purpose of these is to allow well-qualified students to study beyond the regularly offered courses. Independent studies are numbered 299 or 399, depending on the appropriate level, and honors contract courses are designated with a trailing H, such as Math205H. Academic departments are under no obligation to meet requests for independent studies and honors contracts. Students who undertake independent studies must be able to work independently between meetings with the instructor. In order to qualify to take an independent study or honors contract, a student must:

- Have completed at least 31 credits with a GPA of 2.7 or better
- Submit a proposal to the department chair during the week prior to registration for the term in which the independent study or honors contract is to occur.
- Submit an independent study card or honors contract card (signed by the department chair and instructor) to the College Office to be reviewed by the Dean of Academics.
- Create a syllabus together with the instructor and submit it to the College Office before or during registration.

## Interdisciplinary Studies

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### Interdisciplinary Studies 494. Senior Seminar I.

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

Prerequisite: C– or better in Interdisciplinary Studies 390.

1 Credit.

## Mathematics

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### Mathematics 095. 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.

### Mathematics 101. 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.

### Mathematics 140. Elements of Calculus. (QR)

Derivatives with applications, exponential functions, integration with applications, and functions of several variables. Not recommended for students pursuing a degree in mathematics, engineering, or the physical sciences. Because of duplication of subject matter, students may not receive credit for both Mathematics 140 and Mathematics 150. Mathematics 140 does not fulfill prerequisite requirements for Mathematics 151.

Prerequisite: Mathematics 115 or appropriate score on placement test.

3 Credits.

### Mathematics 150. Calculus I.

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.

Prerequisite: B– or better in Mathematics 120 or Mathematics 124 or appropriate score on SAT or placement test.

4 Credits.

### Mathematics 493. Senior Literature Review.

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

Prerequisite: Mathematics 390 or Interdisciplinary Studies 390.

2 Credits.

### Mathematics 494. Senior Seminar I.

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

Prerequisite: C- or better in Mathematics 390.

1 Credit.

## Music

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### Music 100. 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 Credit.

## Philosophy

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### Philosophy 102. Introduction to Philosophy. (Worldviews)

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

3 Credits.

### Philosophy/Political Science 220. Political Thought. (Civil)

A consideration of political thinkers and theories, both ancient and modern, along with perennial issues in politics, such as justice, authority, liberty, order, equality, power, law, and forms of government. Strongly recommended: Philosophy 101.

Prerequisite: Philosophy 102.

3 Credits.

### Philosophy 321. Swedenborg's Philosophy II.

Swedenborg's thought upward from the human body in his "search for the soul." Main text taken from the sections on Series and Degrees and The Human Soul in *The Economy of the Animal Kingdom*, terminating in applications in *The Rational Psychology*.

3 Credits.

### Philosophy 493. Senior Literature Review.

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

Prerequisite: Interdisciplinary Studies 390.

3 Credits.

## Physical Education

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### Physical Education 112. Team Sports for Fun.

A survey of a range of team sports including for example, soccer, volleyball, lacrosse, ultimate, basketball, floor hockey. Student interest accommodated. Course may be repeated once for credit.

1 Credit.

### Physical Education 180. Foundations of Physical Education.

This course gives the prospective teacher of Health and Physical Education (HPE) insight into this area, including the historical, philosophical, and sociological principles with a survey of the latest research and literature in the field. Lifetime health benefits related to proper nutrition and exercise physiology examined. The course is designed for students who are planning a career in education, health, or physical education. Non-repeatable.

1 Credit.

## Political Science

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### Political Science 211. Comparative Government. (Civil)

Introduction to the comparative study of the politics of nations. Examines the underlying principles, machinery, and effectiveness of selected governments around the world, and ramifications for their societies. 3 Credits.

### Philosophy/Political Science 220. Political Thought. (Civil)

A consideration of political thinkers and theories, both ancient and modern, along with perennial issues in politics, such as justice, authority, liberty, order, equality, power, law, and forms of government. Strongly recommended: Philosophy 101.

Prerequisite: Philosophy 102.

3 Credits.

## Psychology

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### Psychology 101. 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.

### Psychology 201. Abnormal Psychology.

Examination of mental disorders as classified by the medical model, including schizophrenia and other psychotic disorders, mood disorders, anxiety disorders, dissociative disorders, disorders of childhood, eating disorders, and personality disorders. Critical analysis of the principles and philosophy of the medical model, as well as the physiological underpinnings of certain disorders. Alternative views for the conceptualization of mental disorders explored.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 203. Personality Theory.

Examination of six perspectives about personality: dispositional, biological, intrapsychic, cognitive/experiential, sociocultural, and adjustment. Consideration of human nature, group differences, and individual uniqueness. Students undertake an in-depth self-analysis based on the above perspectives.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 205. Social Psychology. (PP)

This course examines how people think about, influence, and relate with one another. It investigates such topics as the social self, person perception, attitudes, persuasion, conformity, group processes, gender, culture, prejudice, aggression, altruism, interpersonal attraction, and love. Public Presentation skills emphasized.

3 Credits.

### Psychology 230. Psychology and Spirituality.

Examination of reported beliefs and experiences related to various spiritual topics, including clairvoyance, channeling, creativity, dreams, hallucinations, miracles, angels, prayer, spiritual influence, near death experiences, deathbed visions, spirit realms, and the afterlife. Swedenborgian perspectives included.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 341. Human Development: Adult Altruism. (EE, Moral)

Exploration of psychological theories about moral development, character strengths, altruism, optimism, flourishing, flow, generosity and spiritual maturity. Major emphasis on the states of adults over 18 years of age. Examination of Swedenborgian doctrinal principles regarding adult human development: regeneration, opening of the rational mind, developing a new will, acquiring wisdom, and leading a life of useful service to the neighbor. Ethical reasoning skills emphasized.

Prerequisite: Two psychology courses.

3 Credits.

### Psychology 490. Research Methods in Psychology. (IL)

First capstone course for the psychology major. The investigation of psychology as a science with a focus on the qualitative and quantitative approaches to research in the area of psychology. It examines strategies for establishing validity in descriptive, relational, and experimental design in the framework of ethical research. Emphasis will be placed on critical reading and analysis of previously published scientific research. Students receive practice in designing, conducting, analyzing, interpreting the results of research studies, and writing reports in APA style. Students prepare proposal for Senior Essay.

Prerequisites: Psychology 101 and Mathematics 130. Students must be accepted psychology majors.

3 Credits.

### Psychology 298, 398. Psychology Internship. (EE)

Proposals must be approved by the head of the Psychology area. Psychology internships are open to students in sophomore year or above who have completed two psychology courses. Requirements are available from director of internships.

Credit variable.

## Religion

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### Religion 101. Introduction to New Church Doctrines. (Doctrinal)

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.

### Religion 110. Introduction to Systematic Theology. (Doctrinal)

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.

### Religion 215. The Lord. (Doctrinal)

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.

### Religion 220. The Torah. (Scriptural)

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.

### Religion 372. Spiritual Development for Educators (W, Applied)

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. 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.

Prerequisite: Students must be juniors or seniors majoring in education

3 Credits.

### Religion 380. History of New Church Doctrine. (IL, Applied)

Survey of the development of doctrinal thought in the history of the New Church. Considerations of various and divergent interpretations. The evolution of ideas and their impact on the Church. Reflection on the intellectual heritage of the Church from an historical perspective. Extensive research in New Church collateral literature.

3 Credits.

## Sociology

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### Sociology 110. Introductory Sociology.

Introduction to the discipline of sociology and a sociological perspective for understanding human behaviors and the structure of human societies. Discussions apply a sociological perspective to topics such as social class, gender, race and ethnicity, culture, work, and social movements in order to understand how individual lives and social groups are shaped by social structures, cultural understandings and distributions of power.

3 Credits.

## Theater

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### Theater 120. Set Design and Production. (EE)

Hands-on introduction to scene design and production. Overview of the elements of scene design with emphasis on the process of designing a set. Research, sketching, drafting, model building, color application, and actual set construction within a budget. Students required to understand and use all of the equipment in the theater as it pertains to the design and will work with the play's director using the Mitchell Performing Arts Center as the classroom and will participate as a member of the run-crew for the winter Bryn Athyn College production. Final project involves the construction of the actual set. Course may be repeated once for credit.

Credit variable.

## Writing

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### Writing 100. Academic Writing.

Development of academic writing skills in preparation for Writing 101. Intensive grammar and punctuation instruction and practice, in conjunction with an introduction to the structure and process of academic writing.

Required for provisionally-admitted first-year students before advancement to Writing 101.  
3 Credits.

### Writing 101. 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. Non-native speakers who want to take Writing 101 in their first year need permission of the Language and Literature department chair.

3 Credits.

### Writing 202. Writing About Literature. (W, IL)

Second-year requirements of all students. Dean's permission required for deferral to third year. Analytic study of 3 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.

Prerequisite: Writing 101.

3 Credits.

### Business/Writing 220. 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.

Prerequisite: Writing 101.

3 Credits.

## Winter Term 2021-22 Undergraduate Course List

As of 7/21/2021. (Independent Study and Internship courses not listed).

COURSE	TITLE	CREDITS	INSTRUCTOR
Anth213	World Pre-History	3	Yardumian, Aram
Anth320	Genocide	3	Yardumian, Aram
Bio123	Introduction to Biology: Molecular Biology	3	Bryntesson, A. Fredrik
Bio123L (0)	Introduction to Biology: Molecular Biology Lab	1	McMackin, Grace Rose
Bio123L (1)	Introduction to Biology: Molecular Biology Lab	1	McMackin, Grace Rose
Bio220	Human Anatomy and Physiology II	3	Higgins, Ed
Bio220L	Human Anatomy and Physiology II Lab	1	Higgins, Ed
Bio235	Ecology	3	Potapov, Eugene R.
Bio235L	Ecology Lab	1	Potapov, Eugene R.
Bio310	Molecular Biology: DNA and Gene Expression	3	Bryntesson, A. Fredrik
Bio492	Biology Seminar III	1	Bryntesson, A. Fredrik
Bio495 (0)	Senior Project (WC)	3	Evans, Stella R.
Bio495 (1)	Senior Project (WC)	3	Bryntesson, A. Fredrik
Bus142	Accounting II	3	Waltrich, Christopher
Bus256	Principles of Sales	3	Swiski, Mark D.
Bus267	Introduction to Sports Management	3	Shute, Dick
Bus301 (0)	Business Ethics (Moral)(PP)	3	King, Ethan
Bus301 (1)	Business Ethics (Moral)(PP)	3	King, Ethan
Bus305	Business Seminar	1.5	King, Ethan
Bus327	International Financial Management	3	Moretti, James A.
Bus495	Senior Capstone Project (WC)	2	Rogers, Elizabeth
Chem110	General Chemistry I	3	Higgins, Ed
Chem110L (0)	General Chemistry I -Lab	1	Evans, Stella R.
Chem110L (1)	General Chemistry I -Lab	1	McMackin, Grace Rose
Chem211	Organic Chemistry II	3	Higgins, Ed
Chem211L	Organic Chemistry II: Lab	1	Higgins, Ed
Comm105	Public Speaking (PP)	3	Pine, Ryan E.
Comm130	Foundations of Graphic Design	3	Mill, Carl
CSci180	Structured Programming	3	Simonetti, Neil
CSci206	Introduction to Data Science	3	Simonetti, Neil
Dan120	Dance Technique	3	Bostock, Jessica
Ed218	Literacy Instruction for Young Learners I	3	Morey, Robin
Ed272	Child Development:Birth to Age Nine	3	Rose, Angela N.
Ed323	Math and the Young Child	3	Morey, Robin
Ed402	Student Teaching (EE)	12	Phillips, Nina Gunther
Eng220	Virtue, Vice, and Visions: English Literature 650-1650	3	Cooper, Robin
FA103	Art of Asia, Africa, and the Americas	3	Kline, Jonathan D.
FA222	Intermediate Forging	3	Holzman, Warren
FA228	Intermediate Stained Glass Painting	3	DaCrema, Elizabeth T.
FA230	Intermediate Ceramics	3	Orthwein, Christina
FA241	Building Arts Foundation II	3	Nelson, Stephen Rich
FA252	Introduction to Welding and Machine Work	3	Holzman, Warren
FE2	Field Experience II: Exploration	3	Rose, Angela N.

<b>Germ102</b>	Introductory German II	3	Lawing, Sean
<b>Grk110</b>	Beginning New Testament Greek I	3	Glenn, Coleman
<b>Hist114</b>	The Classical World (IL)	3	Closterman, Wendy
<b>Hist257</b>	Women in Classical Antiquity (PP)	3	Closterman, Wendy
<b>HSoc402</b>	Capstone Seminar II (WC)	3	Lawing, Sean
<b>Math115</b>	College Algebra (QR)	3	Staff
<b>Math130</b>	Introduction to Statistics (QR)	3	Bongers, Caira
<b>Math130L (0)</b>	Introduction to Statistics Lab	1	Bongers, Caira
<b>Math130L (1)</b>	Introduction to Statistics Lab	1	Bongers, Caira
<b>Math151</b>	Calculus II	4	Simonetti, Neil
<b>Math495</b>	Senior Essay (WC)	2	Bongers, Caira
<b>PE129</b>	Badminton	1	Bryntesson, Hilary J.
<b>PE133</b>	Yoga	1	Ritter, Kristin Suzanne
<b>Phil101</b>	Critical Thinking	3	Synnestvedt, Dan
<b>Phil102</b>	Introduction to Philosophy (Worldview)	3	Cole, Stephen
<b>Phil111</b>	Introduction to Moral Philosophy (Moral)	3	Latta, Marcy
<b>Phil495</b>	Senior Essay	3	Synnestvedt, Dan
<b>Phys210</b>	Principles of Physics I (QR)	3	Blair, Max
<b>Phys210L (0)</b>	Principles of Physics I - Lab	3	Blair, Max
<b>Phys210L (1)</b>	Principles of Physics I - Lab	3	Blair, Max
<b>PSci101 (0)</b>	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
<b>PSci101 (1)</b>	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
<b>PSci101 (2)</b>	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
<b>PSci160</b>	Introduction to Criminal Law and Justice	3	Rogers, Elizabeth
<b>PSci212</b>	International Relations	3	Hodgell, Reid
<b>Psyc101</b>	Introductory Psychology	3	Rogers, Kiri K.
<b>Psyc204</b>	Human Development: Lifespan	3	Frey, Kurt
<b>Psyc215</b>	Organizational Psychology	3	Frey, Kurt
<b>Psyc298</b>	Psychology Internship	1	Rogers, Kiri K.
<b>Psyc301</b>	Counseling and Clinical Psychology	3	Rogers, Kiri K.
<b>Psyc491</b>	Senior Research Seminar (WC)	3	Frey, Kurt
<b>Psyc492</b>	Senior Seminar	1	Nash, Laura
<b>Rel101 (0)</b>	Introduction to New Church Doctrines (SpDoc)	3	Schnarr, Grant
<b>Rel101 (1)</b>	Introduction to New Church Doctrines (SpDoc)	3	Glenn, Thane
<b>Rel115</b>	Introduction to New Church Doctrine on Life After Death	3	Genzlinger, Matthew
<b>Rel123</b>	Introduction to the Old and New Testaments (SpScript)	3	Genzlinger, Matthew
<b>Rel205 (0)</b>	God, Man, and Creation (IL)(SpDoc)	3	Frazier, Scott Innes
<b>Rel205 (1)</b>	God, Man, and Creation (IL)(SpDoc)	3	Frazier, Scott Innes
<b>Rel272</b>	Advanced Religious Ethics (W)(SpAppl)	3	Silverman, Ray
<b>Rel305</b>	Universal Doctrines of the New Church I (SpDoc)(W)	3	Frazier, Scott Innes
<b>Rel490</b>	Religion Senior Project I (WC)	3	Frazier, Scott Innes
<b>Span101</b>	Introductory Spanish I	3	Diaz, Elena
<b>SpEd212</b>	Supporting Students with Disabilities	3	Wong, Sarah
<b>SpEd312</b>	Classroom Assessments	3	Phillips, Nina Gunther
<b>Thea130</b>	Scenic Production (EE)	3	Haus-Roth, Naomi
<b>Thea150</b>	Dramatic Performance (EEc)	3	Bostock, Jessica
<b>Writ101 (0)</b>	Expository Writing (W)	3	Pine, Ryan E.

<b>Writ101 (1)</b>	Expository Writing (W)	3	Cooper, Robin
<b>Writ101pp (0)</b>	Expository Writing (W)(PP)	3	Hoffman, Chandra
<b>Writ202 (0)</b>	Writing About Literature (W) (IL)	3	Pine, Ryan E.
<b>Writ213 (0)</b>	Advanced Rhetoric and Composition (W)	3	Glenn, Thane

+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 2021-22 Undergraduate Courses

## Anthropology

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### Anthropology 213. Archaeology and World Pre-History.

Using world archaeological sites as stepping stones, creates a narrative of prehistory from Australopithecus through the advent of urban civilization in the old and new worlds. Focuses on three general revolutions in human history: 1) the emergence of the genus Homo with all its modern attributes; 2) the development of agriculture and animal husbandry during the Neolithic; 3) the coming together of humans in cities and states, and the ramifications for human society.

3 Credits.

### Anthropology 320. 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

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### Biology 123. 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.

Prerequisite: Chemistry 101L or High School Chemistry.

3 Credits.

### Biology 123 Lab. Introduction to Biology: Molecular Biology Lab.

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

1 Credit.

### Biology 220. Human Anatomy and Physiology II.

Continuation of the study of the structure and function of the human body and the mechanisms for maintaining homeostasis within it. Includes the study of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems, as well as the concepts of development and metabolism.

Identification of anatomical structures using a “virtual” cadaver and preserved animal specimens will be required in the laboratory. Some hands-on dissection. This course and the related laboratory must be taken together.

Prerequisite: Biology 210 and 210L.

3 Credits.

### **Biology 220 Lab. Human Anatomy and Physiology II Lab.**

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

1 Credit.

### **Biology 235. 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.

Prerequisites: Biology 122, 122L, 123, and 123L.

3 Credits.

### **Biology 235 Lab. Ecology Lab.**

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

1 Credit.

### **Biology 310. Molecular Biology: DNA and Gene Expression.**

In depth study on the structure and function of the genetic material, DNA, how it is replicated and how genes are regulated and expressed. Topics include the structure of DNA and chromosomes, the nucleosome, how chromatin structure is achieved and regulated, DNA replication, DNA damage and repair, transcription, RNA splicing, translation, transcriptional regulation in prokaryotes and eukaryotes and the structure and function of regulatory RNAs.

Prerequisites: Biology 230, Chemistry 210, and 210L.

3 Credits.

### **Biology 492. 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.

Prerequisites: Biology 380, 490, and Biology 495.

1 Credit.

### **Biology 495. Senior Project. (WC)**

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.

Prerequisites: Biology 380 and Biology 490.

3 Credits.

## **Business**

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### **Business 142. Accounting II.**

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

Prerequisite: Business 141.

3 Credits.

### **Business 256. Principles of Sales.**

In this course, the student will learn about assessing customer needs, developing account relationships and implementing effective sales strategies. During the course students will return to the theme of approaching sales with honesty and integrity, both from a practical and moral perspective. This course will cover the broader role sales communication plays in bringing people and the products and services they need together, not just the narrow skills required to convince the customer to make a purchase.

Prerequisite: Communication 105. Recommended: Business 254.

3 Credits.

### **Business 267. Introduction to Sports Management.**

This course highlights the need for trained sport management professionals by examining the history of sport. This course also provides analysis of effective management strategies and the body of knowledge associated with pursuing a career as a manager in the sport industry. Functional management, strategic planning, decision making, leadership style, managing conflict and change, motivation of a workforce, and career opportunities in different sport environments will be explored.

Prerequisite: any science or any economics or any business principles course.

3 Credits.

### **Business 301. 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. Communication 105 or any other public presentation course is recommended before taking this course.

3 Credits.

### **Business 305. Business Seminar.**

A seminar course featuring speakers from a variety of professional backgrounds. Students will be expected to interview and introduce these speakers and lead follow-up discussions on the material they present. May be repeated for credit.

1.5 Credits.

### **Business 327. International Financial Management.**

This course provides an overview of international financial markets as well as presenting key challenges often faced in international financial management. Topics include import and export financing, measuring and managing foreign exchange exposure, international financial markets and banking, issues with raising capital internationally, insurance and taxation issues.

Prerequisites: any economics course and Bus320, or permission of the instructor.

3 Credits.

### **Business 495. Senior Capstone Project. (WC)**

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

Prerequisites: Business 493 and Business 494.

2 Credits.

## Chemistry

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### Chemistry 110. 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.

Prerequisite: One year of high school chemistry with a grade of C or better or Chemistry 101 or Earth Science 110. Any student who registers for this course and has a math SAT of 450 or lower (or the equivalent ACT score) must take Chemistry 101 prior to taking Chemistry 110.

3 Credits.

### Chemistry 110 Lab. General Chemistry I Lab.

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

1 Credit.

### Chemistry 211. Organic Chemistry II.

Continuation of Chemistry 210. Topics include spectrophotometric identification of organic compounds, arenes, esters, epoxides, aldehydes and ketones, carboxylic acids and acid derivatives, and condensation reactions. Emphasis on biological applications of organic chemistry. This course and the related laboratory must be taken together.

Prerequisite: Chemistry 210 and 210L.

3 Credits.

### Chemistry 211 Lab. Organic Chemistry II Lab.

Includes synthetic techniques and computational chemistry. This course requires a lab fee. This course and the related lecture course must be taken together.

Prerequisite: Chemistry 210 and 210L.

1 Credit.

## Communication

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### Communication 105. 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.

### Communication 130. Foundations of Graphic Design.

Introductory study of how to create and communicate graphic ideas effectively. Covers elements of design, spatial relationships, typography, and imagery as they apply to graphic communication for print and web. Students will develop graphic design skills (the ability to solve visual communication problems) by integrating Adobe Creative Suite software skills and foundational design concepts. Software instruction in basics of such programs as InDesign, Illustrator, and possibly Photoshop.

3 Credits.

## Computer Science

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### Computer Science 180. Structured Programming.

Language elements and applications. Algorithm development. Introduction to object-oriented programming. Prerequisite: Computer Science 105 or other programming experience with permission of instructor. 3 Credits.

### Computer Science 206. Introduction to Data Science.

Skills and tools in acquiring, organizing, parsing, manipulating, and preparing data for statistical analysis. Skills include classifying unstructured data, cleaning data, identifying useful questions, and simple analysis. Tools include Excel, Python, and Microsoft Business Intelligence software packages. Prerequisite: Any Computer Science course. 3 Credits.

## Dance

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### Dance 120. Dance Technique.

A studio course in fundamental dance technique, including jazz dance, modern/contemporary dance, and ballet. The course focuses on proper alignment, execution, and the overall strength and flexibility specific to the dancer. The artistry and musicality of the dancer is explored through dance combinations, improvisation exercises, and analysis of famous pieces of choreography. Also serves as a PE course. 3 Credits.

## Education

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### Education 218. 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. Prerequisite: Education 128 or Education 217. 3 Credits.

### Education 272. Child Development: Birth - Nine Year Olds.

This course looks at how theories of child development and research can inform best practices for childcare and education. Major theories of human development are compared within the context of New Church education. Emphasis on attachment theory, the sensory needs of early childhood, and how to create an environment that helps children develop resilience in an increasingly technological world. 3 Credits.

### Education 323. 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.

### Education 402. 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.

3-12 Credits.

### 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 Tuesday and Thursday of the term. Not open to non-majors; third-year students only.

3 Credits.

### Special Education 212. Supporting Students with Disabilities.

This course examines the characteristics and needs of students who are identified under the 13 federally defined categories of disabilities. Emphasis on investigating the complexity of these needs and the specially designed instruction that meets them. Research-based frameworks such as UDL and other strategies that support inclusionary practices within the life of the classroom will be addressed.

Prerequisite: Special Education 111.

3 Credits.

### Special Education 312. 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 assessments and will learn how to appropriately adapt instruction based on assessment findings.

Prerequisite: Special Education 111 and permission of the education department chair.

3 Credits.

## English

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Literature courses in this discipline fill the aesthetic requirement of the Core Program. 200-level English courses require Writing 101 as prerequisite. 300+-level English courses require a 200-level English as prerequisite.

### English 220. British Literature I. Virtue, Vice, and Visions: 650-1650.

Chronological survey of the development of English literature in England from the early medieval period through the mid-17<sup>th</sup> century. Lecture, discussion, and student reports or projects.

Prerequisite: Writing 101.

3 Credits.

## Experiential Education

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### Experiential Education 198/298. Internship. (EE)

The internship course is open to students with a 2.5 GPA or above. It is a supervised, pre-professional experience with clear links to a student's academic program. It is conducted primarily or totally outside a regular course classroom, and for which a student earns academic credit. It is organized primarily around an assignment in a work-place situation in which students working under the direction of a supervisor learn hands-on professional skills.

The internship course requires a syllabus, reflective component, and an analytical component (e.g., essay, paper, or presentation). Individual syllabi are retained in the office of Internship. This course satisfies the EE requirement.

Course may be repeated for academic credit by arrangement.

Credit variable.

## Fine Arts

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### Fine Arts 103. Art of Asia, Africa, and the Americas.

Introductory survey of art and architecture of Asia, Africa, and the Americas, considering material as diverse as Shang dynasty bronzes and Song and Ming dynasty hand- and hanging-scrolls in China, early Buddhist art and architecture and later painted screens in Japan, Aztec, Mayan, and Incan art in Central and South America, bronzes from the Kingdom of Benin, and masks and sculpture from the various peoples of West Africa.

3 Credits.

### Fine Arts 222. Intermediate Metal Forging.

Focusing on architectural ironwork design and construction, this course refines the skills learned in FA 122. Includes opportunities for self-expression and creative thinking. Inspired by the magnificent examples in Glencairn and Bryn Athyn Cathedral.

This course requires a lab fee.

Prerequisite: FA 122.

3 Credits.

### Fine Arts 228. Intermediate Stained Glass Painting

Focusing on architectural stained glass design and construction, this course refines the skills learned in FA 128. Includes opportunities for self-expression and creative thinking, repair and restoration of historic glass. Inspired by the magnificent examples in Glencairn and Bryn Athyn Cathedral.

This course requires a lab fee.

Prerequisite: FA 128.

3 Credits.

### Fine Arts 230. Intermediate Ceramics.

Further development of individual skills and sensitivities in the medium of clay.

This course requires a lab fee.

Prerequisite: Fine Arts 130.

3 Credits.

### Fine Arts 241. Building Arts Foundation II.

This course builds upon skills acquired in FA141 Building Arts Foundation I and provides opportunities to practice design principles while further developing the hand skills essential to all craft disciplines. Students are presented with visual problems to solve that relate to various lecture topics. Students use preparatory drawings and models to communicate ideas then execute projects in a variety of materials. Students work independently and in groups to solve design challenges. Emphasis is placed on teamwork, accuracy, and craftsmanship. The collections and models in the Glencairn Museum support these endeavors.

This course requires a lab fee.

3 Credits.

### Fine Arts 252. Introduction to Welding and Machine Work

This course introduces students to the procedures of operating equipment commonly found within an architectural metals shop environment. Students will be introduced to various welding techniques, along with the safe use of equipment such as lathes and mills, both individually and within a group setting. Emphasis will be placed on safety and craftsmanship.

This course requires a lab fee.

3 Credits.

## German

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### German 102. Introductory German II.

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

Prerequisite: German 101 or equivalent as determined by placement test.

3 Credits.

## Greek

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### Greek 110. Beginning New Testament Greek I.

Introduction to the language of the New Testament. A study of the basic forms and syntax of Greek grammar.

3 Credits.

## History

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### History 114. The Classical World. (II)

Historical survey of ancient Greece and Rome from Mycenaean civilization to the fall of the Roman Empire in the west. Particular attention to cultural values, political trends, and the role of religion in Greek and Roman societies. Examination of textual and archaeological evidence. Guided development of a research paper.

3 Credits.

### History 257. 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.

### History 298, 398, 498. History Internship II. (EE)

Proposals must be approved by the appropriate department chair. History internships are open to students in second year or above who have completed at least two history courses.

Credit variable.

## Human Society

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### Human Society 402. Capstone Seminar II. (WC)

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. Only open to Human Society majors.

Prerequisite: HSoc 401.

3 Credits.

## Independent Studies and Honors Contracts

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In addition to the listed courses, departments may offer independent studies and honors contracts at the 200-level or above in a variety of fields. The purpose of these is to allow well-qualified students to study beyond the regularly offered courses. Independent studies are numbered 299 or 399, depending on the appropriate level, and honors contract courses are designated with a trailing H, such as Math205H. Academic departments are under no obligation to meet requests for independent studies and honors contracts. Students who undertake independent studies must be able to work independently between meetings with the instructor. In order to qualify to take an independent study or honors contract, a student must:

- Have completed at least 31 credits with a GPA of 2.7 or better
- Submit a proposal to the department chair during the week prior to registration for the term in which the independent study or honors contract is to occur.
- Submit an independent study card or honors contract card (signed by the department chair and instructor) to the College Office to be reviewed by the Dean of Academics.
- Create a syllabus together with the instructor and submit it to the College Office before or during registration.

## Internships

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### 298/398/498 Internships (in their academic areas) (EE)

Individually arranged career related internships. See the Major Department Head or Director of Internships for details.

3 Credits.

## Mathematics

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### Mathematics 115. College Algebra. (QR)

Algebraic topics designed to assist in the use of mathematics in science courses. Topics include exponents and radicals, rational expressions, inequalities, complex numbers, polynomial analysis and advanced factoring, rational functions and asymptotes, and quantitative reasoning applications. Because of duplication of subject matter, students may not receive credit for both Mathematics 115 and Mathematics 120.

Prerequisite: Mathematics 101 or appropriate score on placement test.

3 Credits.

### Mathematics 130. 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.

Prerequisite: Mathematics 101 or appropriate score on placement test.

4 Credits.

### Mathematics 151. Calculus II.

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

Prerequisite: Mathematics 150.

4 Credits.

### Mathematics 495. Senior Essay. (WC)

Capstone experience for the Mathematics or Interdisciplinary Major. Writing of the senior essay based on the research and outline produced in Mathematics 493.

Prerequisites: Mathematics 493 and either Interdisciplinary Studies 494 or Mathematics 494.

2 Credits.

## Philosophy

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### Philosophy 101. Critical Thinking.

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

3 Credits.

### Philosophy 102. Introduction to Philosophy. (Worldviews)

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

3 Credits.

### Philosophy 111. Introduction to Moral Philosophy. (Moral)

Survey of some major philosophers, problems (Euthyphro, relativism, egoism), and theories (aretaic, deontic, utilitarian) in moral philosophy. Strongly recommended: Philosophy 101.

Prerequisite: Philosophy 102.

3 Credits.

### Philosophy 495. Senior Essay. (WC)

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

Prerequisites: Philosophy 493 and Interdisciplinary Studies 494.

3 Credits.

## Physical Education

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### Physical Education 129. Badminton.

Basic instruction in skill techniques, rules, strategies, and competition in badminton. Course may be repeated once for credit.

1 Credit.

### Physical Education 133. Yoga.

Introduction to yoga course. Variety of yoga (poses) including standing poses, twists and forward bends, arm-balancing, back bending and inversions. Open to all abilities. Course may be repeated once for credit.  
1 Credit.

## Physics

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### Physics 210. 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.

Co-requisite or Prerequisite: Mathematics 150.

3 Credits.

### Physics 210 Lab. Principles of Physics I Lab.

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

1 Credit.

## Political Science

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### Political Science 101. Introduction to Politics and Governance. (Civil)

Examines the discipline of political science and the concepts involved in the study of politics and governance. Surveys regime types and the role and function of political institutions and organizations. Focus on the potential for thinking about civic and political issues from a religiously-informed perspective.

3 Credits.

### Political Science 160. Introduction to Criminal Law and Justice.

Introduction to the American criminal justice system. Provides an overview of the many aspects of criminal justice including crime, policing, the courts, theories of punishment, incarceration, juvenile justice, and domestic violence. Includes a consideration of a variety of viewpoints such as the perspectives of the perpetrator, victims, the police, community members, and the courts.

3 Credits.

### Political Science 212. 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

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### Psychology 101. 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.

### Psychology 204. Human Development: Lifespan.

Examination of biological, cognitive, and psychosocial development from conception through death. Review of theories and research pertaining to prenatal, infant, child, adolescent, and adult development, as well as aging and dying. Focus on both constancy and change as well as the interaction of biological and environmental factors.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 215. Organizational Psychology.

This course applies psychological science to the dynamics of professional organizations. It considers such topics as job analysis, psychological assessment, personnel decisions, employee training, human factors, organizational development, teamwork and leadership, motivation and satisfaction, work stress, and organizational ethics. The course will prepare students for post-graduate work in personality, social, and organizational psychology or immediate employment in industrial, organizational, and business settings.

Prerequisite: Psychology 101

3 credits.

### Psychology 301. Counseling and Clinical Psychology.

Examination of psychological theories that inform the skills of counselors and clinical psychologists in various professional settings. Topics include psychological theories, the roles of the counselor, listening skills, case conceptualization, treatment methods and intervention strategies. Consideration of what it means to incorporate individual values and spirituality into treatment.

Prerequisite: Two psychology courses or department chair permission.

3 Credits.

### Psychology 491. Senior Research Seminar. (WC)

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.

### Psychology 492. Senior Seminar.

Capstone for seniors in the psychology major. Public presentation. Critical analysis of ethics in psychology. Career planning and portfolio development. Pass/Fail.

1 Credit.

### Psychology 298, 398. Psychology Internship. (EE)

Proposals must be approved by the head of the Psychology area. Psychology internships are open to students in sophomore year or above who have completed two psychology courses. Requirements are available from director of internships.

Credit variable.

## Religion

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### Religion 101. Introduction to New Church Doctrines. (Doctrinal)

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.

### Religion 115. Introduction to New Church Doctrine on Life After Death. (Doctrinal)

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.

### Religion 123. Introduction to the Old and New Testaments. (Scriptural)

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.

### Religion 205. God, Man, and Creation. (IL, Doctrinal)

Study of how the Lord created the spiritual and natural worlds, with emphasis on humans as the purpose of creation. Vital relationships between the Creator and His creation, with the special role played by humans. Focus on teaching about form, order, degrees, influx, and conjunction.  
Text: *Divine Love and Wisdom*.  
3 Credits.

### Religion 272. Advanced Religious Ethics. (W, Applied)

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

### Religion 305. Universal Doctrines of the New Church I. (Doctrinal)

Systematic survey of the universal theology of the New Church: God the Creator, the Lord the Redeemer, the Holy Spirit, the Holy Scripture and Ten Commandments, and Faith. Depending on enrollment, may include an RTTP simulation of the Council of Nicea. Text: *True Christian Religion*.  
3 Credits.

### Religion 490. Religion Senior Project I. (WC)

For religion majors. One term is required. May be repeated for a second term with the consent of the division head.  
3 Credits.

## Spanish

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### Spanish 101. Introductory Spanish I.

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

## Theater

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### Theater 130. Set Design and Production. (EE)

Continuation of Theater 120: building and dressing the set from the designer drawings and elevations created in the fall. Finalizing of the design, including color elevations and prop design. Students required to understand and use all of the equipment in the theater as it pertains to the completion of the design using the Mitchell Performing Arts Center as the classroom. Once the set is complete, the class shifts and will work with the play's director and will participate as a member of the run-crew for the winter Bryn Athyn College production. Final project involves the construction of the actual set and running of the show. Course may be repeated once for credit.

Credit variable.

### Theater 150. Dramatic Performance. (EEC)

Students involved in the casts or technical aspects of certain dramatic productions may sign up for this course. Exposure to a variety of acting techniques, including the specialized work needed for productions that might range from Shakespeare's plays, to foreign plays in translation, to musicals. Script analysis, oral interpretation of character, performance movement, dance, and vocal techniques. Variable credit based on the student's involvement. 5-12 hours weekly in rehearsals/classes leading to a finished production. Course may be repeated once for credit.

1-3 Credits.

## Writing

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### Writing 101. 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. Non-native speakers who want to take Writing 101 in their first year need permission of the Language and Literature department chair.

3 Credits.

### Writing 202. Writing About Literature. (W, IL)

Second-year requirements of all students. Dean's permission required for deferral to third year. Analytic study of 3 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.

Prerequisite: Writing 101.

3 Credits.

### Writing 213. Advanced Rhetoric and Composition. (W)

Intensive study of writing for students interested in developing rhetorical skills in composition. Attention to concepts of classical rhetoric and to issues arising in the context of contemporary cultural environments and communications practices, including online environments.

Prerequisite: Writing 101.

3 Credits.

## Spring Term 2021-22 Undergraduate Course List

As of 7/21/2021. (Independent Study and Internship courses not listed).

COURSE	TITLE	CREDITS	INSTRUCTOR
Ant/His211	Artifacts, Archaeology, and Museums (W)	3	Closterman, Wendy
Anth110	An Introduction to Cultural Anthropology	3	Yardumian, Aram
Bio230	Genetics	3	Bryntesson, A. Fredrik
Bio232	Cell Structure and Function	3	Bryntesson, A. Fredrik
Bio250	Microbiology	3	Evans, Stella R.
Bio250L	Microbiology Lab	1	Evans, Stella R.
Bio380	Research Seminar (IL)(PP)	1	Evans, Stella R.
Bio492	Biology Seminar III	1	Potapov, Eugene R.
Bus257	Principles of Management	3	Swiski, Mark D.
Bus302	Corporate Social Responsibility	3	Rogers, Elizabeth
Bus351	Introduction to Business Law	3	Rogers, Elizabeth
Bus390	Research Seminar(IL)	2	King, Ethan
Bus496	Senior Seminar II	1	Rogers, Elizabeth
Chem111	General Chemistry II	3	Higgins, Ed
Chem111L (0)	General Chemistry II Lab (QR)	1	McMackin, Grace Rose
Chem111L (2)	General Chemistry II Lab (QR)	1	McMackin, Grace Rose
Comm105	Public Speaking (PP)	3	Pine, Ryan E.
Comm225	Professional Communication and PR for Contemporary	3	Staff,
CS/Math230	Statistics and Data Mining (QR)	3	Bongers, Caira
Dan160	Dance Ensemble (EEc)	1.5	Bostock, Jessica
Dan234	Ballet (EEc)	3	Bostock, Jessica
Econ132 (0)	Microeconomics (QR)	3	King, Ethan
Econ132 (1)	Microeconomics (QR)	3	King, Ethan
Ed128	Introduction to the Theory and Practice of Education	3	Rose, Angela N.
Ed219	Literacy for Young Learners II	3	Morey, Robin
Ed274	Adolescent Growth and Development: Ages 8-18	3	Phillips, Nina Gunther
Ed402	Student Teaching (EE)	12	Phillips, Nina Gunther
Eng105	Imagining American Surveillance: The Rise of the Social	3	Pine, Ryan E.
Eng221	Storytelling, Humor, and Literary Expression: Highlights	3	King, Kristin
Eng365	Literature as Social Lens	3	King, Kristin
EnSci105	Introduction to Sustainability	3	Potapov, Eugene R.
EnSci105L (0)	Introduction to Sustainability	1	Potapov, Eugene R.
EnSci105L (1)	Introduction to Sustainability	1	Potapov, Eugene R.
FA120	Metal Work I	3	Kline, Jonathan D.
FA125	Photography	3	Orthwein, Christina
FA220	Metal Work II	3	Kline, Jonathan D.
FA251	Integrating Art into a Child's Early Years	1.5	Gyllenhaal, Martha
FA322	Traditional Joinery Design and Production	3	Holzman, Warren
FA328	Glass Dynamics	3	Nelson, Stephen Rich
FE3	Field Experience III	3	Rose, Angela N.
Grk111	Beginning New Testament Greek II	3	Glenn, Coleman
Heb250	Intermediate Hebrew	3	Frazier, Scott Innes
Hist117	The Contemporary World	3	Rose, D. Greg

<b>Hist311</b>	Vengeance and Justice in Medieval Europe	3	Lawing, Sean
<b>ID390</b>	Research Seminar (IL)	2	Latta, Marcy
<b>ID496</b>	Senior Seminar II	1	Nash, Laura
<b>Lead130</b>	Introduction to Leadership (EE)	3	Nash, Laura
<b>Math095</b>	Preparation for Quantitative Reasoning	1	Genzlinger, Maret
<b>Math101</b>	Introduction to Quantitative Reasoning (QR)	3	Simonetti, Neil
<b>Math102</b>	Understanding Mathematics in Society (QR)	3	Simonetti, Neil
<b>Math115</b>	College Algebra (QR)	3	Staff
<b>Math124</b>	Transcendental Functions (QR)	1.5	Simonetti, Neil
<b>Math130</b>	Introduction to Statistics (QR)	3	Bongers, Caira
<b>Math130L</b>	Introduction to Statistics Lab	1	Bongers, Caira
<b>Math250</b>	Calculus III	3	Bongers, Caira
<b>Math496</b>	Senior Seminar II	1	Nash, Laura
<b>Mus100</b>	College Chorale	1	Bier, Graham
<b>Mus110</b>	History of Western Music	3	Bier, Graham
<b>Nutr110</b>	Principles of Nutrition	3	Nelson, Suzanne
<b>PE103</b>	Life and Health	1	Bryntesson, Hilary J.
<b>PE133</b>	Yoga	1	Ritter, Kristin Suzanne
<b>Phil101</b>	Critical Thinking	3	Synnestvedt, Dan
<b>Phil102</b>	Introduction to Philosophy (Worldview)	3	Synnestvedt, Dan
<b>Phil311</b>	Topics in Contemporary Philosophy II	3	Synnestvedt, Dan
<b>Phil340</b>	Bioethics (Moral)	3	Latta, Marcy
<b>Phys211</b>	Principles of Physics II (QR)	3	Blair, Max
<b>Phys211L</b>	Principles of Physics II -Lab	1	Blair, Max
<b>PSci101</b>	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
<b>Psyc201</b>	Abnormal Psychology	3	Rogers, Kiri K.
<b>Psyc205</b>	Social Psychology (PP)	3	Frey, Kurt
<b>Psyc220</b>	Cognitive Psychology	3	Frey, Kurt
<b>Psyc305</b>	Physiological Psychology (IL)	3	Cavallo, Fernando
<b>Rel101 (1)</b>	Introduction to New Church Doctrines (SpDoc)	3	Glenn, Thane
<b>Rel115 (0)</b>	Introduction to New Church Doctrine on Life After Death	3	Schnarr, Grant
<b>Rel115 (1)</b>	Introduction to New Church Doctrine on Life After Death	3	Schnarr, Grant
<b>Rel125</b>	The Holy Scripture (SpDoc)	3	Cole, Stephen
<b>Rel210</b>	Divine Providence and Human Prudence (IL) (SpDoc)	3	Genzlinger, Matthew
<b>Rel222</b>	The Gospels (SpScript)	3	Frazier, Scott Innes
<b>Rel273</b>	Religion and Marriage (SpDoc)(W)	3	Silverman, Ray
<b>Rel295</b>	Islam (SpComp)	3	Rose, D. Greg
<b>Rel306</b>	Universal Doctrines of the New Church II (W)(SpDoc)	3	Glenn, Thane
<b>Span102</b>	Introductory Spanish II	3	Diaz, Elena
<b>SpEd213</b>	Family and Community Partnership	3	Wong, Sarah
<b>SpEd313</b>	Evidence-Based Interventions	3	Ballard, Kelly M.
<b>Writ101</b>	Expository Writing (W)	3	Staff
<b>Writ202</b>	Writing About Literature (W) (IL)	3	Cooper, Robin
<b>Writ212</b>	Online Writing (W)	3	Hoffman, Chandra

+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 2021-22 Undergraduate Courses

## Anthropology

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### Anthropology 110. 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.

### Anthropology/History 211. Artifacts, Archaeology, and Museums. (W)

Introduction to the theories and methods used to interpret how objects provide evidence for history and express a society's values, ideas, and attitudes. Includes examination of archaeological method and ethics, and the use of objects in a museum setting. Use of hands-on projects and visits to Bryn Athyn's historic district and other local sites.

3 Credits.

## Biology

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### Environmental Science 105. 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.

### Environmental Science 105 Lab. Introduction to Sustainability Lab.

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

1 Credit.

### Biology 230. Genetics.

Study of the process of heredity at a more advanced level than Biology 122. The course covers concepts of cell division (cell cycle, mitosis & meiosis), fundamental and extended Mendelian genetics, chromosome mapping in eukaryotes and prokaryotes, the genetics of sex determination and sex chromosomes, chromosomal mutations, extranuclear inheritance; developmental genetics, quantitative genetics, and the genetics of populations and evolution.

Prerequisites: Biology 122, 122L, 123, and 123L.

3 Credits.

### Biology 232. 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.

Prerequisites: Biology 122, 122L, 123, 123L, and Chemistry 110 and 110L.

3 Credits.

### **Biology 250. 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.

Prerequisites: Biology 122, 122L, 123, and 123L.

3 Credits.

### **Biology 250 Lab. Microbiology Lab.**

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

1 Credit.

### **Biology 380. 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.

Prerequisite: acceptance into the biology major.

1 Credit.

### **Biology 492. 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.

Prerequisites: Biology 380, 490, and Biology 495.

1 Credit.

## **Business**

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### **Business 257. 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.

### **Business 302. 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.

### **Business 351. 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.

### **Business 390. Research Seminar. (II)**

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.

### **Business 496. Senior Seminar II.**

For seniors in the Business Major. Public presentation of senior project. Career planning and portfolio development. Pass/Fail.

Prerequisite: C– or better in Business 495.

1 Credit.

### **Business 298, 398, 498. Business Internship. (EE)**

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, Bus290.

Credits and requirements variable.

## **Chemistry**

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### **Chemistry 111. General Chemistry II. (QR)**

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.

Prerequisite: Chemistry 110 and 110L. Students must pass both Chem 110 and 110L in order to take Chem 111.

3 Credits.

### **Chemistry 111 Lab. General Chemistry II Lab.**

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

Prerequisite: Chemistry 110 and 110L. Students must pass both Chem 110 and 110L in order to take Chem 111L.

1 Credit.

## **Communication**

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### **Communication 105. 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.

### **Communication 225. Professional Communication and PR for Contemporary Workplaces.**

Foundational communication and public relations (PR) skills, with focus on how a communications function operates within an organization. Exploration of the role of communications strategy. Opportunities to turn concepts into real-world work products. Attention to social and digital literacies, content creation and distribution, and cultural differences in global audiences.

Prerequisite: Writing 202 or A-level work in Writing 101.

3 Credits.

## Computer Science

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### Computer Science/Mathematics 230. Statistics and Data Mining. (QR)

This course builds on what was learned in Mathematics 130 with an eye on big data sets. Techniques include regression and classification methods, culminating in a final project. Throughout the course, the programming language R will be used.

Prerequisites: B- or better in Mathematics 130 or Mathematics 330.

3 Credits.

## Dance

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### Dance 160/260/360. Dance Ensemble. (EEC)

A dance repertory course for the performing artist. Rehearsing and performing pieces choreographed by faculty and guest artists. Styles may include contemporary, jazz, hip-hop, ballet, and/or tap. Each student will be involved in several different pieces of choreography. Course culminates in public performance. Dance 260 includes collaboration on a choreography project or a solo choreography project. Dance 360 involves choreographing and teaching a group piece of choreography to the class to be performed at the end of term concert. Course may be repeated for credit.

1.5 Credits.

### Dance 234. Ballet. (EEC)

Intermediate course in ballet technique. Introduction to and development of the fundamentals of ballet technique and vocabulary, emphasizing alignment, stretching and strengthening, flexibility, kinesthetic awareness, line and movement phrases. This course culminates in a final performance. Course may be repeated once for credit.

Prerequisite for Dance 234: Dance 120, Dance 134, or instructor's permission. Also serves as a PE course.

3 Credits.

## Economics

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### Economics 132. 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

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### Education 128. Introduction to the Theory and Practice of Education.

Aspects of a career in teaching are explored. Topics include: teaching as a profession, educational philosophies, best practices in classroom instruction, and garden-based learning. Students observe classes at the Bryn Athyn Church School, participate in at least three field trips to other schools, and gain basic gardening experience. Opportunities to develop presentation and storytelling skills.

3 Credits.

### Education 219. 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.

### Education 274. Adolescent Growth and Development: Ages 8-18.

This course explores the physical, intellectual, emotional, and social development of children as they transition through middle childhood into adolescence. Emphasis on how development occurs in diverse contexts (home, school, and community); developmental theories and research that inform practice; and biological and neurological changes happening in the teenage brain.

Prerequisite: Education 128 or Psychology 101.

3 Credits.

### Education 402. 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.

3-12 Credits.

### 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.

### Special Education 213. Family and Community Partnerships.

This course examines the importance of collaboration when serving students with various needs. Addresses the skills and knowledges needed by teachers and interdisciplinary team members. Strategies for collaborating with families, community agencies, educational staff, and other stakeholders will be explored. Students will develop skills for building effective teams, improving communication, problem-solving, advocating and decision-making.

Prerequisite: Special Ed 111.

3 Credits.

### Special Education 313. 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.

Prerequisite: Special Education 111 and permission of the education department chair.

3 Credits.

## English

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Literature courses in this discipline fill the aesthetic requirement of the Core Program. 200-level English courses require Writing 101 as prerequisite. 300+-level English courses require a 200-level English as prerequisite.

### English 105. Imagining American Surveillance: The Rise of the Social Media Novel.

Study of the theme of surveillance in three 21st century novels and selected shorter works. Emphasis on the question 'how do we create and maintain identity in a hyperconnected world?' Lecture, discussion, collaborative work, and student research and presentations.

3 Credits.

### English 221. British Literature II. Storytelling, Humor, and Literary Expression: 1660-1900.

Chronological survey of the development of English literature in England from the late 17<sup>th</sup> century through the early 20<sup>th</sup> century. Lecture, discussion, guest speakers, and student reports or projects. Continuation of English 220; English 220 not prerequisite.

Prerequisite: Writing 101.

3 Credits.

### English 365. Topics in Literature.

In depth examination of a selected literary theme, movement, genre, or author. Specific title announced in the course bulletin when offered. Topics will make use of a professor's area of expertise and research. May be repeated for credit when different topics are offered.

Prerequisite: Any 200-level English course.

3 credits.

## Experiential Education

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### Experiential Education 198/298. Internship. (EE)

The internship course is open to students with a 2.5 GPA or above. It is a supervised, pre-professional experience with clear links to a student's academic program. It is conducted primarily or totally outside a regular course classroom, and for which a student earns academic credit. It is organized primarily around an assignment in a work-place situation in which students working under the direction of a supervisor learn hands-on professional skills.

The internship course requires a syllabus, reflective component, and an analytical component (e.g., essay, paper, or presentation). Individual syllabi are retained in the office of Internship. This course satisfies the EE requirement.

Course may be repeated for academic credit by arrangement.

Credit variable.

### Leadership 130. 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.

## Fine Arts

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### Fine Arts 120. Metal Work I.

Introduction to basic metalworking techniques in fine metals, including cutting and piercing, soldering, chain links, and bezel settings.

This course requires a lab fee.

3 Credits.

### Fine Arts 125. Photography.

Introduction to the use of various cameras, darkroom techniques, alternative processing, and basic design.

This course requires a lab fee.

3 Credits.

### Fine Arts 220. Metal Work II.

Further study in techniques used to shape, join, and color fine metals. Topics may include casting and fabrication techniques, enamel, hinges, the setting of cabochon and/or faceted stones.

This course requires a lab fee.

3 Credits.

### Fine Arts 251. Integrating Art into a Child's Early Years.

By reading about the developmental states of children, discussing the issues involved with elementary art education, looking at examples of children's art, and actually doing projects, future teachers and caregivers will become confident in their ability to use art as one of their teaching methods.

This course requires a lab fee.

1.5 Credits.

### Fine Arts 322. Traditional Joinery Design and Production.

This course introduces students to the various techniques traditionally used to join ferrous metal components. Students learn traditional metal joinery techniques, including collars, riveting, slit and drifts, pass-throughs and forge welding. Students are required to produce various forms of joinery and demonstrate the ability to design and construct a metal piece from conceptual drawing to finished product. Emphasis is placed on safety, design and craftsmanship.

Prerequisite: Fine Arts 122 and Fine Arts 222.

3 Credits.

### Fine Arts 328. Glass Dynamics.

This advanced Building Arts course teaches the uses of glass outside architectural applications. Course content includes structural composition and production of glass including float, colored and tempering processes. Further topics may include warm glass techniques and hot glass applications, along with modern techniques of decal and digital printing on glass.

3 credits.

## Greek

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### Greek 111. Beginning New Testament Greek II.

Continuation of Greek 110.

Prerequisite: Greek 110.

3 Credits.

## Hebrew

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### Hebrew 250. Intermediate Hebrew.

Review of Hebrew grammar, followed by readings in the Old Testament with special attention to forms and syntax.

Prerequisite: Hebrew 111.

3 Credits.

## History

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### History 117. The Contemporary World.

Examination of the post-World War II era and its effect on societies around the globe. Includes survey of political and economic developments in the different regions of the world and thematic approach to the contemporary global situation. Current events discussions.

3 Credits.

### Anthropology/History 211. Artifacts, Archaeology, and Museums. (W)

Introduction to the theories and methods used to interpret how objects provide evidence for history and express a society's values, ideas, and attitudes. Includes examination of archaeological method and ethics, and the use of objects in a museum setting. Use of hands-on projects and visits to Bryn Athyn's historic district and other local sites.

3 Credits.

### History 311. Vengeance and Justice in Medieval Europe.

Exploration of intersecting notions of justice and vengeance in medieval European law, ca. 500 - 1500. Of special interest is the tension between customary, retributive forms of justice and the development of jurisprudence based on Christianity and ideals of Christian rulership. Includes a survey of select Old Testament and Roman laws.

3 Credits.

### History 298, 398, 498. History Internship II. (EE)

Proposals must be approved by the appropriate department chair. History internships are open to students in second year or above who have completed at least two history courses.

Credit variable.

## Independent Studies and Honors Contracts

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In addition to the listed courses, departments may offer independent studies and honors contracts at the 200-level or above in a variety of fields. The purpose of these is to allow well-qualified students to study beyond the regularly offered courses. Independent studies are numbered 299 or 399, depending on the appropriate level, and honors contract courses are designated with a trailing H, such as Math205H. Academic departments are under no obligation to meet requests for independent studies and honors contracts. Students who undertake independent studies must be able to work independently between meetings with the instructor. In order to qualify to take an independent study or honors contract, a student must:

- Have completed at least 31 credits with a GPA of 2.7 or better
- Submit a proposal to the department chair during the week prior to registration for the term in which the independent study or honors contract is to occur.
- Submit an independent study card or honors contract card (signed by the department chair and instructor) to the College Office to be reviewed by the Dean of Academics.
- Create a syllabus together with the instructor and submit it to the College Office before or during registration.

## Interdisciplinary Studies

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### Interdisciplinary Studies 390. Research Seminar. (II)

For juniors in the Interdisciplinary Major. Focus on preparing to do the senior essay during senior year. Explore topics and research questions. Research scholarly sources related to a chosen topic. Formulate draft thesis statement based on interest and research.  
2 Credits.

### Interdisciplinary Studies 496. Senior Seminar II.

For seniors in the Interdisciplinary Major. Public presentation of senior essay. Career planning and portfolio development. Pass/Fail.  
Prerequisite: A passing grade on an interdisciplinary senior essay.  
1 Credit.

## Internships

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### 298/398/498 Internships (in their academic areas) (EE)

Individually arranged career related internships. See the Major Department Head or Director of Internships for details.  
3 Credits.

## Mathematics

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### Mathematics 095. 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.

### Mathematics 101. 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.

### Mathematics 102. Understanding Mathematics in Society. (QR)

Review of mathematical topics with an emphasis on understanding why certain patterns appear. Topics include sets, number systems, geometry, and basic statistics and probability. Recommended for students in education and philosophy.

Prerequisite: Math 101 or appropriate score on placement test.

3 Credits.

### Mathematics 115. College Algebra. (QR)

Algebraic topics designed to assist in the use of mathematics in science courses. Topics include exponents and radicals, rational expressions, inequalities, complex numbers, polynomial analysis and advanced factoring, rational functions and asymptotes, and quantitative reasoning applications. Because of duplication of subject matter, students may not receive credit for both Mathematics 115 and Mathematics 120.

Prerequisite: Mathematics 101 or appropriate score on placement test.

3 Credits.

### Mathematics 124. Transcendental Functions. (QR)

Basic trigonometric functions, modeling periodic phenomena with trigonometric functions, exponential functions and models, exponential equations, and logarithms. When combined with Mathematics 115, these courses would be equivalent to typical pre-calculus course. Because of duplication of subject matter, students may not receive credit for both Mathematics 120 and 124.

Prerequisite or Co-requisite: Mathematics 115.

1.5 Credits

### Mathematics 130. 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.

Prerequisite: Mathematics 101 or appropriate score on placement test.

4 Credits.

### Computer Science/Mathematics 230. Statistics and Data Mining. (QR)

This course builds on what was learned in Mathematics 130 with an eye on big data sets. Techniques include regression and classification methods, culminating in a final project. Throughout the course, the programming language R will be used.

Prerequisites: B- or better in Mathematics 130 or Mathematics 330.

3 Credits.

### Mathematics 250. Calculus III.

Functions of several variables, partial differentiation, multiple integration, vector calculus.

Prerequisite: Mathematics 151.

4 Credits.

## Music

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### Music 100. 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 Credit.

### Music 110. Introduction to Western Music.

Survey of the composers, styles, and genres from western civilization with a focus on developing listening skills and understanding.

3 Credits.

## Nutrition

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### Nutrition 110. Principles of Nutrition.

Principles of Nutrition explores how nutrients in food relate to human health and disease prevention. Topics discussed include current US dietary guidelines and recommendations, digestion and metabolism of major nutrients, nutrition at various stages of the life cycle (maternal, infant, childhood, adolescent, adulthood, later maturity), the relationship of socioeconomic status, culture, and religious practices to food choices, physical activity and nutrition, and the relationship of diet to health and disease. This course is especially beneficial for those who will be entering health-care or food related professions.

3 Credits.

## Philosophy

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### Philosophy 101. 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 classical deductive logic.

3 Credits.

### Philosophy 102. Introduction to Philosophy. (Worldviews)

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

3 Credits.

### Philosophy 311. Topics in Contemporary Philosophy II.

Complement to Philosophy 310, but may be taken independently. Topics and emphases change periodically. Strongly recommended: Philosophy 101.

Prerequisite: Philosophy 102.

3 Credits.

### Philosophy 340. 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.

Prerequisite: Philosophy 102 and any 100-level Biology course.

3 Credits.

## Physical Education

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### Physical Education 103. Life and Health.

Introduction to personal and social health problems we all face today. This course provides information that helps the student understand and investigate these health problems further. Scientific knowledge is presented from a variety of disciplines, such as, medicine, psychology, physiology, and sociology. Non-repeatable.

1 Credit.

### Physical Education 133. Yoga.

Introduction to yoga course. Variety of yoga (poses) including standing poses, twists and forward bends, arm-balancing, back bending and inversions. Open to all abilities. Course may be repeated once for credit.

1 Credit.

## Physics

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### Physics 211. Principles of Physics II. (QR)

Continuation of Physics 210. Calculus-based introduction to classical electricity, capacitance, current, resistance, and circuits. Also magnetism, inductance, electromagnetic oscillations, optics, and introduction to modern physics. This course and the related laboratory must be taken together.

Co-requisites or Prerequisites: Mathematics 151 and Physics 210 and 210L.

3 Credits.

### Physics 211 Lab. Principles of Physics II Lab.

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

1 Credit.

## Political Science

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### Political Science 101. Introduction to Politics and Governance. (Civil)

Examines the discipline of political science and the concepts involved in the study of politics and governance. Surveys regime types and the role and function of political institutions and organizations. Focus on the potential for thinking about civic and political issues from a religiously-informed perspective.

3 Credits.

## Psychology

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### Psychology 201. Abnormal Psychology.

Examination of mental disorders as classified by the medical model, including schizophrenia and other psychotic disorders, mood disorders, anxiety disorders, dissociative disorders, disorders of childhood, eating disorders, and personality disorders. Critical analysis of the principles and philosophy of the medical model, as well as the physiological underpinnings of certain disorders. Alternative views for the conceptualization of mental disorders explored.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 205. Social Psychology. (PP)

This course examines how people think about, influence, and relate with one another. It investigates such topics as the social self, person perception, attitudes, persuasion, conformity, group processes, gender, culture, prejudice, aggression, altruism, interpersonal attraction, and love. Public Presentation skills emphasized.

3 Credits.

### Psychology 220. Cognitive Psychology.

This course features cognitive neuroscience and examines such topics as perception, attention, consciousness, memory, knowledge, imagery, language, problem-solving, judgment, reasoning, decision-making, intelligence, creativity, and wisdom.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 305. Physiological Psychology. (IL)

Exploration of the neural basis of behavior and motivation. Emphasis on the structure, functions and disorders. Topics include memory, emotion, learning, addictions, conscience, states of mind, and self-regulation. Consideration of Swedenborgian view of the brain, mind, and the soul. Information Literacy skills emphasized.

Prerequisite: Psychology 101 and either Biology 122 or department chair permission.

3 Credits.

### Psychology 298, 398. Psychology Internship. (EE)

Proposals must be approved by the head of the Psychology area. Psychology internships are open to students in sophomore year or above who have completed two psychology courses. Requirements are available from director of internships.

Credit variable.

## Religion

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### Religion 101. Introduction to New Church Doctrines. (Doctrinal)

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.

### Religion 115. Introduction to New Church Doctrine on Life After Death. (Doctrinal)

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.

### Religion 125. The Holy Scripture. (Doctrinal)

The symbolic nature of the Word and the spiritual meaning within. The importance of the literal meaning and its interpretation. The Word in heaven and the church. Dual expressions in the Word. Heresies. The Lord and the Word. The Word in very ancient times. The universal church. The necessity of revelation. Illustrations drawn throughout from the Old and New Testaments. Text: *The Doctrine of the Sacred Scripture*.  
3 Credits.

### Religion 210. Divine Providence and Human Prudence. (II, Doctrinal)

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.

### Religion 222. The Gospels. (Scriptural)

Detailed study of the four individual Gospels with attention to similarities and distinctions, historical context, and relationship to the Old Testament. Examination of the literal meaning and its significance to the modern life. Special attention to the nature of the First Advent and the testimony concerning Jesus Christ.  
3 Credits.

### Religion 273. Religion and Marriage (W. Doctrinal)

New Church doctrine concerning marriage. Includes the Divine origin of marriage; the nature of masculinity and femininity; the state of married partners after death; betrothals and weddings; separation and divorce; the role of the Ten Commandments in marriage; states of discord and coldness; adultery and other sexual disorders. Text: *Conjugal Love*.  
3 Credits.

### Religion 295. Islam. (Comparative)

Study of Islam: Muhammad and the origins of Islam, the Qur'an and Hadith, theology and practices, sects and schools. Comparison with New Church perspective.  
3 Credits.

### Religion 306. Universal Doctrines of the New Church II. (W, Doctrinal)

Continuation of Religion 305. Topics include faith, charity, free will, repentance, reformation and regeneration, imputation, baptism, and the holy supper. Special focus on the Second Advent and the New Church: what does God's coming entail? Text: *True Christian Religion*.  
3 Credits.

## Spanish

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### Spanish 102. Introductory Spanish II.

Continuing introduction to the Spanish language. Spanish is the language of instruction. Prerequisite: Spanish 101 or equivalent as determined by placement test.  
3 Credits.

## Writing

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### Writing 101. 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. Non-native speakers who want to take Writing 101 in their first year need permission of the Language and Literature department chair.

3 Credits.

### Writing 202. Writing About Literature. (W, IL)

Second-year requirements of all students. Dean's permission required for deferral to third year. Analytic study of 3 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.

Prerequisite: Writing 101.

3 Credits.

### Writing 212. Online Writing. (W)

Instruction in market research and establishing individual niche. Study of effective style and content in target markets and the general blogosphere. Focus on creating and maintaining a multimedia site, establishing consistent creative nonfiction voice, and populating platform with high quality digital, visual, and written content.

Prerequisite: Writing 101.

3 credits.

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