

BRYN ATHYN COLLEGE

2022-23

Undergraduate
Course Bulletin

Table of Contents

Academic Calendar	5
Academic Reminders and Requirements	5
Fall Term 2022-23 Undergraduate Course List	9
Fall Term 2022-23 Undergraduate Courses.....	12
Biology	12
Business.....	13
Chemistry.....	14
Communication	14
Computer Science	15
Dance	15
Economics.....	15
Education.....	15
English	17
Experiential Education.....	17
Fine Arts	18
Geography	19
History.....	19
Human Society.....	19
Independent Studies and Honors Contracts.....	20
Interdisciplinary Studies	20
Internships.....	20
Mathematics	20
Music	21
Philosophy.....	21
Physical Education	22
Political Science	22
Psychology.....	22
Religion	23
Spanish.....	24
Theater	24
Writing.....	24

Winter Term 2022-23 Undergraduate Course List.....	26
Winter Term 2022-23 Undergraduate Courses.....	29
Anthropology.....	29
Biology.....	29
Business.....	30
Chemistry.....	32
Communication.....	32
Computer Science.....	33
Dance.....	33
Economics.....	33
Education.....	33
English.....	34
Experiential Education.....	35
Fine Arts.....	35
History.....	36
Human Society.....	36
Independent Studies and Honors Contracts.....	36
Interdisciplinary Studies.....	37
Internships.....	37
Latin.....	37
Mathematics.....	37
Philosophy.....	38
Physical Education.....	39
Physics.....	39
Political Science.....	39
Psychology.....	39
Religion.....	40
Spanish.....	41
Theater.....	41
Writing.....	42
Spring Term 2022-23 Undergraduate Course List.....	43
Spring Term 2022-23 Undergraduate Courses.....	46

Anthropology.....	46
Biology.....	46
Business.....	47
Chemistry.....	48
Communication.....	48
Computer Science.....	49
Dance.....	49
Earth Science.....	49
Economics.....	50
Education.....	50
English.....	51
Experiential Education.....	51
Fine Arts.....	52
Greek.....	52
History.....	52
Independent Studies and Honors Contracts.....	53
Interdisciplinary Studies.....	53
Internships.....	54
Latin.....	54
Mathematics.....	54
Music.....	55
Nutrition.....	55
Philosophy.....	55
Physical Education.....	56
Physics.....	56
Political Science.....	56
Psychology.....	57
Religion.....	57
Sociology.....	58
Theater.....	59
Writing.....	59

**BRYN ATHYN COLLEGE CALENDAR FOR ACADEMIC YEAR 2022-23:
ONE HUNDRED and FORTY-FIFTH ACADEMIC YEAR**

2022

June	6	Mon	Graduate Summer Session begins	
July	30	Sat	Graduate Summer Session ends	
August	17	Wed	Faculty retreat	
	18	Thurs	Start-of-year employee meeting	
	21	Sun	New Students (US and International) arrive on campus	
	22-23	Mon-Tues	Orientation for new students	
	24	Wed	All returning students arrive on campus	
	24	Wed	Open advising for all students	
	24	Wed	President's Welcome for all students	
September	25	Thurs	Fall Term classes begin	
	31	Wed	Opening Convocation	
	5	Mon	Labor Day holiday	
	October	7	Fri	Charter Day
		10-19	Mon-Wed	Registration for Winter Term
20		Thurs	All college in-service day—Majors and Career Day	
November	2	Wed	Thanksgiving Convocation	
	3	Thurs	Final day of Fall Term classes	
	4	Fri	Reading day	
	7	Mon	Exams begin	
	10	Thurs	Fall Term ends after Thursday exams	
	24	Thurs	Thanksgiving holiday	
	27	Sun	Resident students return	
	28	Mon	Winter Term classes begin	
December	14	Wed	Christmas Convocation	
	16	Fri	Christmas vacation begins after Friday classes	

2023

January	2	Mon	Resident students return
	3	Tues	Classes resume
	16	Mon	Martin Luther King, Jr. holiday (no classes)
	25-2/3	Wed-Fri	Registration for Spring Term
February	17	Fri	Diversity Convocation
	17	Fri	Final day of Winter Term classes
	20	Mon	Reading day
	21	Tues	Exams begin
	24	Fri	Winter Term ends after Friday exams
March	7	Tues	Resident students return
	8	Wed	Spring Term classes begin
April	5	Wed	Easter Convocation
	7	Fri	Good Friday holiday (no classes)
	10	Mon	Easter Monday holiday (no classes)
May	10	Wed	Closing Convocation
	16	Tues	Final day of Spring Term classes
	17	Wed	Reading day
	18	Thurs	Exams begin
	23	Tues	Final day of exams
	26	Fri	Graduation Reception
	27	Sat	Graduation
	29	Mon	Memorial Day Holiday
June	1	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 or Anth110 or Soc110, any 100-level History course, two math courses, Phil102
- **English and Communications:** Comm105; Writ202 (if eligible); Eng105 and/or 110 (if taken twice or in combination can satisfy 200-level lit)”
- **Fine Arts ID:** FA101 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, Psyc204, Psyc220
- **Religion:** Rel110, Rel205, Phil102, Phil111

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

Student Online Registration Instructions

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

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

Notes:

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

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

Your advisor will guide you through the process of setting up an independent study, internship, or credit overload. Note that students and advisors will be unable to register for internships or independent studies

through the online registration system. Internships and independent studies will be registered by the Registrar once the appropriate paperwork has been completed.

Fall Term 2022-23 Undergraduate Course List

As of 5/19/22. (Independent Study and Internship courses not listed).

Course	Title	Credits	Instructor
Bio122	Introduction to Biology: Genetics and Evolution	3	Bryntesson, A. Fredrik
Bio122	Introduction to Biology: Genetics and Evolution	3	Bryntesson, A. Fredrik
Bio122L*	Introduction to Biology: Genetics and Evolution Lab (W)	1	Evans, Stella R.
Bio122L*	Introduction to Biology: Genetics and Evolution Lab (W)	1	McMackin, Grace Rose
Bio122L*	Introduction to Biology: Genetics and Evolution Lab (W)	1	McMackin, Grace Rose
Bio210	Human Anatomy and Physiology I	3	Higgins, Ed
Bio210L*	Human Anatomy and Physiology I Lab	1	Higgins, Ed
Bio373*	Biological Laboratory Techniques: Molecular Biology	2	Evans, Stella R.
Bio373*	Biological Laboratory Techniques: Molecular Biology	2	Evans, Stella R.
Bio490	Biology Seminar I (IL)	1	Evans, Stella R.
Bus/Wrt220	Business Communications (W)	3	Ludwig, Brett
Bus141	Accounting I	3	King, Ethan
Bus254	Principles of Marketing	3	Swiski, Mark D.
Bus290	Internship Preparation Seminar	1.5	Nash, Laura
Bus351	Introduction to Business Law	3	Rogers, Elizabeth
Bus493	Senior Literature Review	2	King, Ethan
Bus494	Senior Seminar I	1	Synnestvedt, Dan
Chem101	Introduction to Chemistry	3	McMackin, Grace Rose
Chem210	Organic Chemistry I	3	Higgins, Ed
Chem210L*	Organic Chemistry I -Lab	1	Higgins, Ed
Chem210L*	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 (EE)	1.5	Bostock, Jessica
Dan240	Creative Movement and the Young Child	1.5	Staff,
Dan332	Choreography & Composition	3	Bostock, Jessica
Dan494	Senior Seminar I	2	Bostock, Jessica
Econ132	Microeconomics (QR)	3	King, Ethan
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.
Ed330	Field Experience Seminar	1	Rose, Angela N.
Ed402	Student Teaching (EE)	12	Phillips, Nina Gunther
Eng218	American Literature I	3	King, Kristin
Eng370	Twentieth Century Authors (after 1950) (W)	3	King, Kristin
Eng495	Senior Seminar: Career Preparation	1.5	King, Kristin
EnSci105	Introduction to Sustainability	3	Potapov, Eugene R.
EnSci105L*	Introduction to Sustainability	1	Potapov, Eugene R.
EnSci105L*	Introduction to Sustainability	1	Potapov, Eugene R.
FA102	Art History: Renaissance to Now (IL)	3	Kline, Jonathan D.
FA122*	Forging	3	McDonah, Tedd
FA128	Stained Glass I	3	DaCrema, Elizabeth T.

FA130*	Ceramics	3	Orthwein, Christina
FA278	Stained Glass Design	3	DaCrema, Elizabeth T.
FA312	Introduction to Architectural Metal Design	3	McDonah, Tedd
FE1	Field Experience I: Observation	2.5	Rose, Angela N.
FESpEd	Field Experience in Special Education	3	Wong, Sarah
Geog110	World Regional Geography	3	Yardumian, Aram
Hist112	The Viking World	3	Lawing, Sean
Hist286	The Witch-Hunt in Early Modern Europe	3	Lawing, Sean
Hist305	Topics in History: The Founding Era	3	Rose, D. Greg
HSoc401	Capstone Seminar I (IL)	3	Yardumian, Aram
Math095	Preparation for Quantitative Reasoning	1	Genzlinger, Maret
Math101	Introduction to Quantitative Reasoning (QR)	3	Simonetti, Neil
Math150	Calculus I	3	Bongers, Caira
Math150L	Calculus I Lab	1	Bongers, Caira
Math240	Linear Algebra (QR)	3	Simonetti, Neil
Math493	Senior Literature Review	2	Simonetti, Neil
Mus100	College Chorale	1	Bier, Graham
Phil/PS220	Political Thought (Civil)	3	Synnestvedt, Dan
Phil102	Introduction to Philosophy (Worldview)	3	Synnestvedt, Dan
Phil211	Modern Philosophy	3	Latta, Marcy
PSci210	American Government and Politics (PP)	3	Rose, D. Greg
Psyc101	Introductory Psychology	3	Staff,
Psyc205	Social Psychology (PP)	3	Staff,
Psyc285	Positive Psychology: The Science of Living Happily (EE)	3	Nash, Laura
Psyc490	Research Methods in Psychology (IL)	3	Cavallo, Fernando
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Glenn, Coleman
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Glenn, Thane
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Glenn, Thane
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Schnarr, Grant
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Schnarr, Grant
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Silverman, Ray
Rel110	Introduction to Systematic Theology (SpDoc)	3	Frazier, Scott Innes
Rel210	Divine Providence and Human Prudence (IL) (SpDoc)	3	Genzlinger, Matthew
Rel221	The Histories and Prophets of the Old Testament	3	Frazier, Scott Innes
Rel335	The Human Mind (SpAppl)	3	Cole, Stephen
Rel372	Spiritual Development for Educators (SpAppl)(W)	3	Silverman, Ray
Span101	Introductory Spanish I	3	Diaz, Elena
SpEd111	Introduction to Special Education	3	Larcher, Elizabeth Ann
SpEd331	Classroom Management and Behavioral Support	3	Ballard, Kelly M.
SpEd534	Universal Design for Learning and Assisted Technology	2	Ballard, Kelly M.
SpEd535	Foundations for the Graduate Capstone	1	Ballard, Kelly M.
SpEd570	Social-Emotional Development for Students with	3	Cavallo, Fernando
Thea120	Scene Design (EE)	3	Haus-Roth, Naomi
Writ100	Academic Writing	3	Cooper, Robin
Writ101	Expository Writing (W)	3	Cantley, Erica W.
Writ101	Expository Writing (W)	3	Cooper, Robin
Writ101	Expository Writing (W)	3	Cooper, Robin
Writ202	Writing About Literature (W) (IL)	3	Pine, Ryan E.
Writ202	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 2022-23 Undergraduate Courses

Biology

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 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 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. (II)

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

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 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. May not be repeated for credit. No prerequisite required.

1.5 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 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.

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

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

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

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

Dance 160/260/360. Dance Ensemble. (EE)

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 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.

Dance 332. Choreography & Composition. (EEC)

Focuses on the process of creating original dance compositions. Explores the elements necessary to dance composition, such as time, space, energy, form, design, and dynamics through improvisational exercises, the manipulation of movement, and the development of critical and analytical thinking. Students will write extensively throughout the course in the form of personal reflections, critical analysis of readings, and reviews of performances. Students will compose a solo piece of choreography, accompanied by a statement of purpose for their piece and a reflective essay on the process, which will be performed at the end of the term. Prerequisites: Two terms of Dan 131 and/or 231 or instructor's permission. 3 Credits.

Economics

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

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.

Education 330. Field Experience Seminar

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

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 I: Observation.

Students will be assigned to a classroom for guided observation experience that relates to course work during the third year. Open to non-majors with permission from education department chair. 2.5 Credits.

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 working with students who learn differently, be exposed to the various types and levels of service delivery, and have opportunities to reflect on how, when, and why specific evidence-based practices are implemented. Students will start in the observational phase and gradually take on increased instructional responsibilities throughout the term.

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.

This course addresses an overview of key concepts, theories, and practices in special education. The course begins with a role-playing game (Reacting to the Past) in which students learn about the milestone legislation, IDEA, and special attention is given to the social and historical underpinnings of today's special education programming. Students learn to view “disability” and related concepts from varying perspectives and gain an appreciation for the range 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) will be highlighted.

3 Credits.

English

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 218. American Literature I.

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

Prerequisite: Writing 101.

3 Credits.

English 370. Literature of the Past 4 Decades. (W)

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

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

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 on the college drive. This course satisfies the EE requirement.

Course may be repeated for academic credit by arrangement.

Credit variable.

Fine Arts

Fine Arts 102. Art History: Renaissance to Now (II).

Introductory survey of art and architecture from the Renaissance era to the Present, including Renaissance and Baroque Art, Modern movements such as Impressionism and Post-Impressionism, Cubism, Dada, Abstract Expressionism and Pop-Art, and current examples in an ever-expanding canon.

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 278. Stained Glass Design

This course introduces students to the principles of stained glass design, using simple panels as examples. Topics covered include sizing, color selection, structural stability and pricing. Students design a series of stained glass panels based on hypothetical locations and client needs. Students present their designs for evaluation to a panel of reviewers.

Prerequisite: Fine Arts 128

3 Credits.

Fine Arts 312. Introduction to Metal Design.

This course introduces students to the processes employed in the design and presentation of projects in architectural / ferrous metals – iron and steel. Responding to various scenarios, including both replication and the opportunity for original work, students plan and design projects in metal. Student work includes conceptual drawings and initial cost estimates. Students produce a detailed proposal for a project including finished drawings, material and labor estimates, and timetables for completion. Emphasis is placed on design and presentation, rather than execution of actual projects in metal.

Prerequisite: Fine Arts 122.

3 Credits.

Geography

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.

History

History 112. The Viking World.

Study of the Viking Age, c. 750-1050 CE. This course examines the impact of Viking expansion in Europe as raiders, traders, conquerors, and settlers. Using written as well as archaeological sources, attention is paid not only to the chronology of events but also to the consideration of Norse values and beliefs, cultural practices and societal structures. Students participate in Glencairn Museum's Medieval Festival.

3 Credits.

History 286. The Witch-Hunt in Early Modern Europe.

Examines the witch-hunting phenomenon – that is, the prosecution and execution of persons accused of witchcraft – which occurred in Europe and by extension its colonies (e.g. New England) during the period 1450-1750 resulting in thousands of deaths. A consideration of the witch-hunt's intellectual underpinnings, its religious, social, political, legal dimensions, as well as its after-life in contemporary culture. Extensive use of primary sources.

3 Credits.

History 305. Topics in History: The Founding Era

Students take part in two historical role-playing games informed by classic texts: the American Revolution as it unfolded in New York City, 1775-1776 and the constitutional convention of 1787. 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

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

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

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.

Internships

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

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 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 240. Linear Algebra. (QR)

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

Prerequisite: Mathematics 140, Mathematics 150, or Computer Science/Mathematics 230.

3 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.

Music

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

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 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

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

Political Science 210. American Government and Politics. (PP)

Examination of the American political system focusing on founding principles, national governmental institutions, and contemporary issues. Readings from original documents and historical and contemporary authors.

Prerequisite: Political Science 101, History 230, or instructor permission.

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

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 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 285. Positive Psychology: The Science of Living Happily. (EE)

Positive Psychology is the scientific study of human happiness, well-being, and strength of character. This course takes an empirical and experiential approach to help students use the science of thriving and resilience to enhance their lives and others. Topics covered include positive thinking, character strengths, values, goal setting, wellness, the mind-body connection, self-esteem, and serving others in their relationships. No prerequisite required. Three credits and fulfills CORE requirement in Social Sciences. May not be repeated for credit. No prerequisite required.

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

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 210. Divine Providence and Human Prudence. (IL, 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 221. The Histories and Prophets of the Old Testament. (Scriptural)

Detailed study of Joshua to 2 Kings, Psalms, and Prophets viewed in their historical and cultural context.

Discussion of the difference between prophesy and history, relevance to modern life, and the significance of the literal meaning.

3 Credits.

Religion 335. The Human Mind. (Rel335 W is W, Applied)

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

3 Credits.

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. Each week, students will have the opportunity to reflect on their feelings, thoughts, and actions in the light of one of the Ten Commandments and, when appropriate, share their experiences with classmates.

Prerequisite: Students must be juniors or seniors majoring in education
3 Credits.

Spanish

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

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

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 2022-23 Undergraduate Course List

As of 5/10/22. (Independent Study and Internship courses not listed).

Course	Title	Credits	Instructor
Anth240	Anthropology of Religion	3	Yardumian, Aram
Anth260	Human Evolution	3	Yardumian, Aram
Bio123	Introduction to Biology: Molecular Biology	3	Bryntesson, A. Fredrik
Bio123L*	Introduction to Biology: Molecular Biology Lab	1	McMackin, Grace Rose
Bio123L*	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.
Bio492	Biology Seminar III	1	Bryntesson, A. Fredrik
Bio495	Senior Project (WC)	3	Evans, Stella R.
Bus/CSc215	Management Information Systems	3	Marselis, Cindy Joy
Bus/Mth380	Linear Models and Methods for Optimization (QR)	3	Simonetti, Neil
Bus264	Sports Marketing	3	Shute, Dick
Bus301	Business Ethics (Moral)(PP)	3	King, Ethan
Bus301	Business Ethics (Moral)(PP)	3	King, Ethan
Bus305	Business Seminar	1.5	King, Ethan
Bus320	Financial Management (QR)	3	Waltrich, Christopher
Bus354	Marketing Research	3	Swiski, Mark D.
Bus495	Senior Capstone Project (WC)	2	Rogers, Elizabeth
Bus496	Senior Seminar II	1	Rogers, Elizabeth
Chem110	General Chemistry I	3	Higgins, Ed
Chem110L*	General Chemistry I -Lab	1	Evans, Stella R.
Chem110L*	General Chemistry I -Lab	1	McMackin, Grace Rose
Comm105	Public Speaking (PP)	3	Pine, Ryan E.
CSci180	Structured Programming	3	Simonetti, Neil
Dan120	Dance Technique	3	Bostock, Jessica
Dan495	Senior Essay (WC)	2	Bostock, Jessica
Econ131	Macroeconomics (QR)	3	Staff,
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
Eng235	Shakespeare (W)	3	Cooper, Robin
Eng491	English Major Writing Project	3	King, Kristin
FA140*	Drawing and Painting	3	Gyllenhaal, Martha
FA222*	Intermediate Forging	3	McDonah, Tedd
FA258	Stained Glass Survey	3	Kline, Jonathan D.
FA342	Tool and Hardware Production and Design	3	Holzman, Warren
FA348	Advanced Glass Design and Production	3	DaCrema, Elizabeth T.
FE2	Field Experience II: Exploration	3	Rose, Angela N.
His/Ant312	European Folk and Fairy Tales with History	3	Lawing, Sean

Hist219	Contemporary Russia	3	Hodgell, Reid
HSoc402	Capstone Seminar II (WC)	3	Lawing, Sean
Lat110	Beginning Latin I	3	Frazier, Scott Innes
Lead130	Introduction to Leadership (EE)	3	Nash, Laura
Math115	College Algebra (QR)	3	Testani, Susan
Math130	Introduction to Statistics (QR)	3	Bongers, Caira
Math130L	Introduction to Statistics Lab	1	Bongers, Caira
Math130L	Introduction to Statistics Lab	1	Staff,
Math151	Calculus II	4	Simonetti, Neil
Math330	Introduction to Probability Theory	3	Bongers, Caira
Math495	Senior Essay (WC)	2	Bongers, Caira
PE103	Life and Health	1	Bryntesson, Hilary J.
PE133	Yoga	1	Ritter, Kristin Suzanne
Phil101	Critical Thinking	3	Synnestvedt, Dan
Phil102	Introduction to Philosophy (Worldview)	3	Cole, Stephen
Phil102	Introduction to Philosophy (Worldview)	3	Cole, Stephen
Phil111	Introduction to Moral Philosophy (Moral)	3	Latta, Marcy
Phil495	Senior Essay	3	Synnestvedt, Dan
Phys210	Principles of Physics I (QR)	3	Staff,
Phys210L*	Principles of Physics I - Lab	1	Staff,
PSci101	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
PSci101	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
PSci101	Introduction to Politics and Governance (Civil)	3	Rose, D. Greg
Psyc101	Introductory Psychology	3	Staff,
Psyc201	Abnormal Psychology	3	Staff,
Psyc204	Human Development: Lifespan	3	Staff,
Psyc301	Counseling and Clinical Psychology	3	Staff,
Psyc380	Seminar in Forensic Psychology	3	Rogers, Kiri K.
Psyc491	Senior Research Seminar (WC)	3	Nash, Laura
Psyc492	Senior Seminar	1	Nash, Laura
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Schnarr, Grant
Rel101	Introduction to New Church Doctrines (SpDoc)	3	Silverman, Ray
Rel123	Introduction to the Old and New Testaments (SpScript)	3	Glenn, Coleman
Rel125	The Holy Scripture (SpDoc)	3	Genzlinger, Matthew
Rel205	God, Man, and Creation (IL)(SpDoc)	3	Frazier, Scott Innes
Rel273	Religion and Marriage (SpDoc)(W)	3	Silverman, Ray
Rel310	Studies in Arcana Coelestia (W)(SpDoc)	3	Glenn, Thane
Rel490	Religion Senior Project I (WC)	3	Frazier, Scott Innes
Span102	Introductory Spanish II	3	Diaz, Elena
SpEd212	Supporting Students with Disabilities	3	Larcher, Elizabeth Ann
SpEd312	Classroom Assessments	3	Phillips, Nina Gunther
SpEd520	Educational Assessment	3	Cavallo, Fernando
SpEd560	Foundations for Literacy	3	Rose, Angela N.
Thea130	Scenic Production (EE)	3	Haus-Roth, Naomi
Thea150	Dramatic Performance (EE)	3	Bostock, Jessica
Writ101	Expository Writing (W)	3	Glenn, Thane
Writ101	Expository Writing (W)	3	Henderson, Pamela D.
Writ101	Expository Writing (W)	3	Pine, Ryan E.
Writ202	Writing About Literature (W) (IL)	3	Cooper, Robin
Writ212	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.

Winter Term 2022-23 Undergraduate Courses

Anthropology

Anthropology 240. Anthropology of Religion.

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

3 Credits.

Anthropology 260. Human Evolution.

Introduction to human evolution and physical anthropology. Areas include paleoanthropology, primatology, molecular anthropology (population genetics), and to some extent evolutionary biology. Specific issues covered include the primate roots of human behavior, brain and language evolution, new and classic fossil hominids, the origin of anatomically modern humans, and human biogenetic variations.

Prerequisite: Biology 122 or instructor permission.

3 Credits.

Anthropology/History 312. European Folk and Fairy Tales.

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

3 Credits.

Biology

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 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

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/Computer Science 215. Management Information Systems.

This course examines how digital information can be stored and organized to benefit organizations. Topics include strategic use of information, ethical issues in handling information, software options, and concept maps for design. Tools used include spreadsheets, databases, SQL, and report writing software.

Prerequisite: Computer Science 105 or permission of instructor.

3 Credits.

Business 264. Sports Marketing.

This course will study the marketing efforts within the sports industry, including the understanding of the sports customer, and promotional and marketing strategies. Topics include fan behavior, ticketing, advertising, sponsorship, licensing, endorsements, public relations, hospitality, social media, and event management.

Prerequisite: any economics course. Bus254 and Bus267 recommended.

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 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 354. Marketing Research.

Review of methodologies for gathering and analyzing information to guide management in marketing decisions. Formulation of problem statements, identification of data sources, data collection, demining and applying the appropriate analysis technique, creation of actionable management reports understanding of how reports are used to make decisions and influence strategy.

Prerequisite: Business 254 and Mathematics 130.

3 Credits.

Business/Mathematics 380. Linear Models and Methods for Optimization. (QR)

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

Prerequisite: Mathematics 240 and competence in programming.
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.

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

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.

Communication

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

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.

Business/Computer Science 215. Management Information Systems.

This course examines how digital information can be stored and organized to benefit organizations. Topics include strategic use of information, ethical issues in handling information, software options, and concept maps for design. Tools used include spreadsheets, databases, and report writing software. Prerequisite: Computer Science 105 or permission of instructor. 3 Credits.

Dance

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.

Economics

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

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. 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 disability. Students examine the complexity of these needs and the specially designed instruction that meet those needs, especially through an asset-based lens. Evidence-based frameworks such as UDL and other strategies that support inclusionary practices within the life of the classroom is addressed throughout the term.

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 assessment tools 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

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 235. Shakespeare. (W)

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

Prerequisite: Writing 101.
3 Credits.

English 491. English Major Writing Project. (WC)

Completion of the senior writing project. Capstone.

3 Credits.

Experiential Education

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 on the college drive. 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. No prerequisite required.

3 Credits.

Fine Arts

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 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 258. Stained Glass Survey.

This course covers the historical development of stained glass as both an art and architectural form. It focuses on studio practices and techniques and examines the contributions of prominent designers in the field. Close examination of specific pieces from the Glencairn Museum, Bryn Athyn Cathedral and other local venues give students direct access to medieval and twentieth-century examples. Students do original research and give a presentation on a topic of their own choice.

3 Credits.

Fine Arts 342. Tool and Hardware Production and Design.*

In this Building Arts course, students learn the techniques and processes involved in the production of tools and hardware. Students learn how to produce various tools commonly used in metal arts such as hammers, tongs, chisels, punches and drifts. Students also learn how to produce various forms of hardware such as locks, hinges, handles and pulls. In addition, students learn elements of jig design and construction and the technique of heat treating. Students demonstrate proficiency by designing and producing a series of tools and hardware pieces using the techniques learned in the class. Emphasis is placed on safety, design and craftsmanship.

Prerequisite: Fine Arts 122 and Fine Arts 222.

3 Credits.

History

History 219. Contemporary Russia.

Examination of Russia from the 20th Century up to the present, beginning with the Bolshevik overthrow of Tsar Nicholas, the creation of the USSR, Stalin's reign, stagnation, Gorbachev, dissolution, and the Putin Years. Consideration of social, political, and economic issues with special attention paid to the Bolsheviks, the "Great Terror," authoritarianism, and the "Near Abroad".

3 Credits.

Anthropology/History 312. European Folk and Fairy Tales.

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

3 Credits.

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

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

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

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

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.

Latin

Latin 110. Beginning Latin I.

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

3 Credits.

Mathematics

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 330. Introduction to Probability Theory.

Topics include probability spaces, random variables, discrete and continuous distributions, joint distributions, correlation, and central limit theorems. Classical statistical inference will be introduced. This course has a computational component and can be used to fill a requirement in the Computer Science minor or ID area.

Prerequisite: Mathematics 151. Mathematics 240 recommended.

3 Credits.

Business/Mathematics 380. Linear Models and Methods for Optimization. (QR)

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

Prerequisite: Mathematics 240 and competence in programming.

3 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

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 or 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

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

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

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

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 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 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 380. Seminar in Forensic Psychology.

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

3 Credits.

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.

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

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 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 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 205. God, Man, and Creation. (II, 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 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 310. Studies in Arcana Coelestia. (W, Doctrinal)

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

3 Credits.

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

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.

Theater

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. (EE)

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

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.

Spring Term 2022-23 Undergraduate Course List

As of 5/10/22. (Independent Study and Internship courses not listed).

Course	Title	Credits	Instructor
Anth110	An Introduction to Cultural Anthropology	3	Yardumian, Aram
Bio225	Ornithology	3	Potapov, Eugene R.
Bio225L*	Ornithology Lab	1	Potapov, Eugene R.
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.
Bio315	Principles of Biochemistry	3	Higgins, Ed
Bio380	Research Seminar (IL)(PP)	1	Evans, Stella R.
Bio492	Biology Seminar III	1	Potapov, Eugene R.
Bus/Wrt220	Business Communications (W)	3	Ludwig, Brett
Bus142	Accounting II	3	Waltrich, Christopher
Bus257	Principles of Management	3	Swiski, Mark D.
Bus302	Corporate Social Responsibility	3	Rogers, Elizabeth
Bus321	Advanced Financial Management	3	Staff,
Bus390	Research Seminar(IL)	2	King, Ethan
Bus496	Senior Seminar II	1	Rogers, Elizabeth
Chem111	General Chemistry II	3	Higgins, Ed
Chem111L*	General Chemistry II Lab (QR)	1	McMackin, Grace Rose
Chem111L*	General Chemistry II Lab (QR)	1	McMackin, Grace Rose
Comm105	Public Speaking (PP)	3	Pine, Ryan E.
Comm225	Professional Communications and PR for Contemporary	3	Ludwig, Brett
CS/Math235	Discrete Structures	3	Simonetti, Neil
Dan160/260/360+	Dance Ensemble (EE)	1.5	Bostock, Jessica
Dan331	Advanced Modern Contemporary Dance (EEc)	3	Bostock, Jessica
Dan499	Independent Study in Dance	2	Bostock, Jessica
Econ132	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	Rose, Angela N.
Eng105	Madness in Literature	3	Cooper, Robin
Eng219	American Literature II	3	Pine, Ryan E.
Eng320	The English Language	3	Glenn, Thane
ESci110	Introduction to Physical Geology and Meteorology	3	Potapov, Eugene R.
ESci110L*	Principles of Physical Geology: Lab	1	Potapov, Eugene R.
FA125*	Photography	3	Orthwein, Christina
FA313	Topics in Twentieth-Century Architecture:Bryn Athyn's	3	Kline, Jonathan D.
FA495	Senior Essay (WC)	2	Kline, Jonathan D.
FA499	Senior Project	3	DaCrema, Elizabeth T.
FA499	Senior Project	3	Holzman, Warren
FE3	Field Experience III	3	Rose, Angela N.
Grk250	Readings in New Testament I	3	Glenn, Coleman
Hist105	Topics in History	3	Staff,

Hist213	Magic and Religion in the Nordic Middle Ages	3	Lawing, Sean
Hist217	Nazi Germany	3	Lawing, Sean
Hist330	Twentieth-Century American History Seminar	3	Rose, D. Greg
ID390	Research Seminar (IL)	2	Latta, Marcy
Lat111	Beginning Latin II	3	Frazier, Scott Innes
Math095	Preparation for Quantitative Reasoning	1	Genzlinger, Maret
Math101	Introduction to Quantitative Reasoning (QR)	3	Simonetti, Neil
Math124	Transcendental Functions (QR)	1.5	Simonetti, Neil
Math130	Introduction to Statistics (QR)	3	McMackin, Grace Rose
Math130L	Introduction to Statistics Lab	1	McMackin, Grace Rose
Math130L	Introduction to Statistics Lab	1	McMackin, Grace Rose
Math140	Elements of Calculus (QR)	3	Testani, Susan
Math311	Ordinary Differential Equations	3	Bongers, Caira
Mus100	College Chorale	1	Bier, Graham
Nutr110	Principles of Nutrition	3	Nelson, Suzanne
PE112	Team Sports for Fun	1	Bryntesson, Hilary J.
PE129	Badminton	1	Bryntesson, Hilary J.
Phil101	Critical Thinking	3	Synnestvedt, Dan
Phil102	Introduction to Philosophy (Worldview)	3	Synnestvedt, Dan
Phil340	Bioethics (Moral)	3	Latta, Marcy
Phys211	Principles of Physics II (QR)	3	Blair, Max
Phys211L*	Principles of Physics II -Lab	1	Blair, Max
PSci232	Issues in American Foreign Policy (W)	3	Rose, D. Greg
PSci260	Law and American Society	3	Rogers, Elizabeth
Psyc212	Health Psychology	3	Staff,
Psyc220	Cognitive Psychology	3	Staff,
Psyc307	Psychological Measurement	3	Cavallo, Fernando
Rel115	Introduction to New Church Doctrine on Life After Death	3	Schnarr, Grant
Rel115	Introduction to New Church Doctrine on Life After Death	3	Schnarr, Grant
Rel123	Introduction to the Old and New Testaments (SpScript)	3	Staff,
Rel125	The Holy Scripture (SpDoc)	3	Genzlinger, Matthew
Rel215	The Lord (SpDoc)	3	Glenn, Thane
Rel222	The Gospels (SpScript)	3	Frazier, Scott Innes
Rel273	Religion and Marriage (SpDoc)(W)	3	Silverman, Ray
Rel296	Eastern Religious Thought/Hinduism (SpComp)	3	Silverman, Ray
Rel320	Judgment, Providence, and Human Society (SpAppl)(PP)	3	Frazier, Scott Innes
Soc110	Introduction to Sociology	3	Ballard, Kelly M.
SpEd213	Family and Community Partnership	3	Wong, Sarah
SpEd313	Evidence-Based Interventions	3	Larcher, Elizabeth Ann
SpEd513	Evidence-Based Interventions	4	Larcher, Elizabeth Ann
SpEd550	Methodologies: Specially Designed Instruction for High-	3	Lieberman, David S.
Thea110	Introduction to Performance Arts	3	Bostock, Jessica
Writ101	Expository Writing (W)	3	Henderson, Pamela D.
Writ101pp	Expository Writing (W)	3	Hoffman, Chandra
Writ202	Writing About Literature (W) (IL)	3	Cooper, Robin
Writ202	Writing About Literature (W) (IL)	3	Cooper, Robin

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

*This course requires a lab fee.

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

Spring Term 2022-23 Undergraduate Courses

Anthropology

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.

Biology

Biology 225. Ornithology.

The study of the morphology, physiology and ecology of diverse groups of birds. Includes classification, systematics and biogeography of bird taxa. Emphasis on how the study of birds aids in the understanding of fundamental biological concepts, such as evolution; and how adaptive radiation shapes form and function.

This course and the related laboratory must be taken together.

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

3 Credits.

Biology 225 Lab. Ornithology Lab.

Laboratory exercises and field trips introducing fundamental field techniques, especially those used in biodiversity surveys and experimental studies. 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/Chemistry 315. Principles of Biochemistry.

Protein structure, dynamics, folding, and methods of purification and analysis. Methods of enzymology and a review of representative enzyme mechanisms. Membrane structure and function and the operation of membrane proteins in the electron transport chain and oxidative phosphorylation. A special topic of protein science explored in student projects.

Prerequisites: Biology 232, Chemistry 210, and 210L.
3 Credits.

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

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 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 321. Advanced Financial Management.

This course will explore advanced financial management with specific emphasis on assessing and managing risk, including: applications for insurance and securitization, various types of derivatives and the hedging of risk, the unique challenges associated with operating in foreign countries, and tools available to manage these extra risks.

Prerequisite: Business 320.

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.

Chemistry

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.

Biology/Chemistry 315. Principles of Biochemistry.

Protein structure, dynamics, folding, and methods of purification and analysis. Methods of enzymology and a review of representative enzyme mechanisms. Membrane structure and function and the operation of membrane proteins in the electron transport chain and oxidative phosphorylation. A special topic of protein science explored in student projects.

Prerequisites: Biology 232, Chemistry 210, and 210L.

3 Credits.

Communication

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

Computer Science/Mathematics 235. Discrete Structures.

Mathematical foundations for the analysis of computer algorithms. Recursive functions, graph theory, combinatorics and probability.

Prerequisite: Computer Science 180 or competence with a structured programming language.

3 Credits.

Dance

Dance 160/260/360. Dance Ensemble. (EE)

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 331. Advanced Modern Contemporary Dance. (EEC)

Students continue to develop as dancers through learning more complex technique, progressions, and combinations, as well as engaging in improvisational exercises. Emphasis is on increasing accuracy of articulation, range of movement, and moving the body as a cohesive unit. Includes critique of modern and contemporary dance choreography and culminates in a final performance. Course may be repeated once for credit.

Prerequisite: Dance 131/231 or instructor's permission.

3 Credits.

Earth Science

Earth Science 110. Introduction to Physical Geology and Meteorology.

Introduction to mineralogy; igneous, sedimentary, and metamorphic petrology; rock cycle and structural geology. The evolution of continents Introduction to oceanography. The atmosphere and atmospheric

motion, climate, and climatic zones. Earth as a part of the solar system. This course and the related laboratory must be taken together.

Prerequisite or co-requisite: Mathematics 101 (or placement out of Mathematics 101).

3 Credits.

Earth Science 110 Lab. Introduction to Physical Geology and Meteorology Lab.

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

1 Credit.

Economics

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

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 and necessity of collaboration when serving all students, and especially those with disabilities. Addresses the skills and knowledge 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

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. Madness in Literature (Introductory Literature Seminar).

Study of how and why madness appears so often in fiction. Considerations include madness' symbolic values, use as a manipulative narrative tool, emotional impacts, relations to illness and genius, and changing appearances in literature from classical to contemporary works. Authors include Euripides, Gogol, Poe, Kafka, Plath, Christie, Palahniuk, and more.

3 Credits.

English 219. American Literature II.

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

Prerequisite: Writing 101.

3 Credits.

English 320. The English Language.

Study of the historical development of the language from Anglo-Saxon to Modern English, with focus on the culture and events that have shaped the language and ways in which English has shaped cultures. Prerequisite: Any 200-level English course.

3 Credits.

Experiential Education

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 on the college drive. This course satisfies the EE requirement.

Course may be repeated for academic credit by arrangement.

Credit variable.

Fine Arts

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 313. Topics in Twentieth-Century Architecture: Bryn Athyn's National Historic Landmarks.

Study of the conception of Bryn Athyn Cathedral, Glencairn, Cairnwood, and Cairncrest within the context of architectural developments at the turn of the twentieth century. The course uses resources in the Cathedral, John Pitcairn Archives, Glencairn, and the Raymond and Mildred Pitcairn archives, from which the students do original research on a topic of their choice.

3 Credits.

Fine Arts 495. Senior Essay. (WC)

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

Prerequisites: Fine Arts 493 and Interdisciplinary Studies 494.

2 Credits.

Fine Arts 499. Senior Project.

Independent study toward a studio arts project to be a companion to the Fine Arts Interdisciplinary Senior Essay. Limited to and required of fine arts interdisciplinary majors in a studio art track.

Prerequisite: Fine Arts 399.

Credit Variable.

Greek

Greek 250. Readings in New Testament I.*

Readings in the Gospel of John and the Book of Revelation.

Prerequisite: Greek 111.

3 Credits.

History

History 213. Magic and Religion in the Nordic Middle Ages.

Examination of the conversion of medieval Northern Europe from Norse paganism to Christianity (c. 800 – 1300 CE) as understood in three periods: Pre-Christian, Conversion, and Christian. Consideration of multiple aspects pertaining to shifts in worldviews, values, and religious beliefs. Students analyze and interpret assigned primary sources.

3 Credits.

History 217. Nazi Germany.

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

3 Credits.

History 330. Twentieth-Century American History Seminar.

Selected topics affecting twentieth-century American society. Focus on economic, social, and political change in the post-World War II era.

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

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

Interdisciplinary Studies 390. Research Seminar. (IL)

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

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.

Latin

Latin 111. Beginning Latin II.

Continuation of Latin 110.

Prerequisite: Latin 110.

3 Credits.

Mathematics

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 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.

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.

Computer Science/Mathematics 235. Discrete Structures.

Mathematical foundations for the analysis of computer algorithms. Recursive functions, graph theory, combinatorics and probability. Prerequisite: Computer Science 180 or competence with a structured programming language.
3 Credits.

Mathematics 311. Ordinary Differential Equations.

Linear, second-order, and systems of differential equations and Laplace transforms. Prerequisite: Mathematics 151.
3 Credits.

Music

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.

Nutrition

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

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 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

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 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.

Physics

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

Political Science 232. Issues in American Foreign Policy. (W)

Consideration of American foreign policy through an examination of dominant themes and a series of case studies highlighting both levels of analysis and decision-making theories.

Prerequisites: Political Science 101, History 117, or instructor permission.

3 Credits.

Political Science 260. Law and American Society.

An introduction to the American legal system examining the basic tenets of the American Legal system, including theories of jurisprudence and an examination of the Constitution as the framework for our legal system. Students will explore how laws are created and enforced through the court systems, legislatures, and

administrative agencies. The course includes an introduction to legal research, case briefing, and mock trial or moot court.
3 Credits.

Psychology

Psychology 212. Health Psychology.

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

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 307. Psychological Measurement.

Introduction to the principles that underlie the development, use, and interpretation of psychological assessment tools. Topics include: Test construction, survey development, scoring, assessment interpretation issues, and psychological assessment applications in industrial, educational, clinical, and research settings. Students will examine the potential and limitations of tests of intelligence, aptitude, achievement, interest, and personality. Additionally, psychological assessment will be discussed in terms of social, legal, and ethical concerns.
Prerequisite: Psychology 101 and two other psychology courses, 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

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 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 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 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 296. Eastern Religious Thought/Hinduism. (Comparative)

Introduction to Eastern Religious Thought with a focus on the *Bhagavad Gita*, considered one of the most revered of the Hindu scriptures, and one of the most important religious classics in the world. Course includes an in-depth study of the literal and symbolic levels of the *Gita*, a comparison with Western thought in general and with New Church thought in particular.

3 Credits.

Religion 320. Judgment, Providence, and Human Society. (PP, Applied)

Study of the spiritual process of judgment, both personal and societal, and the roles human choice and Divine Providence play in judgment. Attention given to the role of judgment in human history, the judgments that have occurred, and the changes judgment brings. Text: *Last Judgment, Last Judgment Continued*, assorted selections from the Heavenly Doctrines.

3 Credits.

Sociology

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

Theater 110. Introduction to Performance Arts.

Study and practice of elementary acting, movement, and voice skills. Students examine verbal and nonverbal communication in solo and group performance, along with scene and script analysis. Improvisation and work on studied pieces, leading to a final performance. Study of the history and philosophy of performance styles from the ancient Greeks to the Elizabethans and modern theorists (Stanislavski, Artaud, Brecht, et. al.).
3 Credits.

Writing

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.