

BRYN ATHYN COLLEGE

2018-19

Course Bulletin

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**BRYN ATHYN COLLEGE CALENDAR FOR ACADEMIC YEAR 2018-19:  
ONE HUNDRED and FORTY-SECOND ACADEMIC YEAR**

2018			
June	18-22	Mon-Fri	Building Arts Intensive Workshop
	25-29	Mon-Fri	Building Arts Intensive Workshop
July	9-13	Mon-Fri	Building Arts Intensive Workshop
	16-20	Mon-Fri	Building Arts Intensive Workshop
August	13	Mon	Faculty retreat
	14	Tues	Administration and Faculty meetings
	19	Sun	New Students (US and International) arrive on campus
	20-21	Mon-Tues	Orientation for new students
	21	Tues	All returning students arrive on campus
	21	Tues	Open advising for all students
	21	Tues	7:00 pm: President's Welcome (dessert) for all students (Glencairn)
22	Wed	8:10 am: Fall Term classes begin	
September	3	Mon	Labor Day holiday
October	12	Fri	Charter Day
	18	Thurs	All college in-service day—Majors and Career Day
	22-31	Mon-Wed	Registration for Winter Term
November	2	Fri	Final day of Fall Term classes
	5	Mon	Reading day
	6	Tues	Exams begin
	9	Fri	Fall Term ends after Friday exams
	22	Thurs	Thanksgiving holiday
	25	Sun	Resident students return
	26	Mon	Winter Term classes begin
December	21	Fri	Christmas vacation begins after Friday classes
2019			
January	6	Sun	Resident students return
	7	Mon	Classes resume
	21	Mon	Martin Luther King, Jr. holiday
	23-2/1	Wed-Fri	Registration for Spring Term
February	18	Mon	Final day of Winter Term classes
	19	Tues	Reading day
	20	Wed	Exams begin
	23	Sat	Winter Term ends after Saturday exams
March	5	Tues	Resident students return
	6	Wed	Spring Term classes begin
	25-29	Mon-Fri	Phase I Registration
April	1-5	Mon-Fri	Phase II Registration
	19	Fri	Good Friday holiday
	22-26	Mon-Fri	Phase III Registration
May	15	Wed	Final day of Spring Term classes
	16	Thurs	Reading day
	17	Fri	Exams begin
	22	Wed	Final day of exams
	24	Fri	6:30 pm: Graduation Dinner (Brickman Center)
	25	Sat	10:00 am: Graduation (Asplundh Field House)
	30	Thurs	End of Year Faculty Meeting and End of Year Faculty and Staff 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.

Each term, choose three or four academic courses at the appropriate level. Full-time students must take at least 9 academic 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 31 credits per year. Full-time tuition covers 14.5 credits per term; additional payment is necessary for any more. 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 (or Writing 100 as recommended)
- Math 101 (or test out of it via Math placement test)
- At least 9 academic credits each term 100-level courses unless you get permission for upper-level courses
- 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
- At least 9 academic credits each term 100- or 200-level courses unless you get permission for higher-level courses
- To advance to third year status, you must complete residency requirements and accumulate at least 62 credits. Fourth year status requires completion of residency requirements, accumulating at least 93 credits, and acceptance into a major program.

## Third and Fourth Year Requirements

- One religion course each year (not 100-level)
- At least 9 academic credits each term
- Graduation requires completion of major, core, and residency requirements and completing at least 124 credits (some majors may require more). Additionally, a minimum of 120 credits must be academic (some courses carry non-academic credit, mainly PE courses).
- In addition to the residency requirements listed above, students interested in the following majors should register for the courses listed below in their first year:
- Biology: Bio122 & 123, Chem101 and/or Chem110&111
- Education: Ed128, ESci110, Geog110, any 100-level History course, two math courses, Phil102, Rel101 or 110
- English: n/a (Recommended: Eng105)
- ID: 100-level requirements/recommendations from the appropriate areas
- History: any 100-level history courses (Recommended: 100-level anthropology, geography, political science, sociology courses)
- Psychology: Psyc101 (Recommended: Math130 and 100-level anthropology and/or sociology)
- Religion: Rel110 and either Rel115 or Rel125

## **Worksheets for Majors:**

If you are interested in a particular major, please see the worksheets online. Major requirement worksheets are available on our website at the following location: <http://www.brynthyn.edu/academics/majors/forms.html>.

## **Graduation Applications:**

Are you planning on graduating this May? Try filling out the graduation application to see what courses you might be missing. Graduation Applications are available on our website at the following location:

<http://www.brynthyn.edu/academics/majors/forms/>.

## **Student Online Registration Instructions:**

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

### **Notes:**

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

- audit a course
- conduct an independent study
- complete an internship
- take more than 14.5 credits

See the Undergraduate Student Handbook online for details.

Your advisor will guide you through the process of setting up an independent study or internship.

Please 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.

## **Core and Major Information**

See the Academic Programs Bulletin for information regarding the Core Program and Majors.

## Fall Term 2018-19 Undergraduate Course List

As of 3/29/2018. (Independent Study and Internship courses not listed).

BLOCK	COURSE	PDE Basic Skills Requirements	CREDITS	INSTRUCTOR
	Bio122	Introduction to Biology: Genetics and Evolution	3	A.F. Bryntesson
	Bio122(1)	Introduction to Biology: Genetics and Evolution	3	A.F. Bryntesson
	Bio122(2)	Introduction to Biology: Genetics and Evolution	3	A.F. Bryntesson
	Bio122L	Introduction to Biology: Genetics and Evolution Lab	1	G.R. McMackin
	Bio122L(1)	Introduction to Biology: Genetics and Evolution Lab	1	G.R. McMackin
	Bio122L(2)	Introduction to Biology: Genetics and Evolution Lab	1	S.R. Evans
	Bio122L(3)	Introduction to Biology: Genetics and Evolution Lab	1	G.R. McMackin
	Bio210	Human Anatomy and Physiology I	3	E. Higgins
	Bio210(1)	Human Anatomy and Physiology I	3	E. Higgins
	Bio210L	Human Anatomy and Physiology I Lab	1	E. Higgins
	Bio210L(1)	Human Anatomy and Physiology I Lab	1	E. Higgins
	Bio490	Biology Seminar I (IL)	1	E. Higgins
	Bus141	Accounting I	3	E.S. King
	Bus/Wrt220	Business Communications (W)	3	E. Rogers
	Bus/Wrt220(1)	Business Communications (W)	3	E. Rogers
	Bus254	Principles of Marketing	3	B. Junge
	Bus272	Drone Applications in Business and Science	3	E.S. King
	Bus305	Business Seminar	1.5	E.S. King
	Bus320	Financial Management (QR)	3	C. Waltrich
	Bus493	Senior Literature Review	2	E.S. King
	Bus494	Senior Seminar I	1	D. Synnestvedt
	Chem101	Introduction to Chemistry	3	A. Bedford
	Chem101L	Introduction to Chemistry Lab	1	S.R. Evans
	Chem210(1)	Organic Chemistry I	3	L.R. Nudy
	Chem210L	Organic Chemistry I -Lab	1	L.R. Nudy
	Chem210L(1)	Organic Chemistry I -Lab	1	G.R. McMackin
	Comm105	Public Speaking (PP)	3	S.V. Bernhardt
	Comm105(1)	Public Speaking (PP)	3	S.V. Bernhardt
	CSci105	Introduction to Computer Systems	3	E. van der Merwe
	Dan131 +	Modern Contemporary Dance (EEc)	1.5	J.R. Bostock
	Dan160 +	Dance Ensemble (EEc)	1.5	J.R. Bostock
	Dan231 +	Modern Contemporary Dance (EEc)	1.5	J.R. Bostock
	Dan240	Creative Movement and the Young Child	1.5	J.R. Bostock

Dan241	History of Twentieth-Century American Dance	3	J.R. Bostock
Dan260 +	Dance Ensemble (EEc)	1.5	J.R. Bostock
Dan360 +	Dance Ensemble (EEc)	1.5	J.R. Bostock
Dan493	Senior Literature Review	2	J.R. Bostock
Econ131	Macroeconomics (QR)	3	W.B. Junge
Ed202	Moral Education (Moral)	3	A.N. Rose
Ed217	Language, Literacy, and Numeracy	3	N.G. Phillips
Ed271	Introduction to Early Childhood Education	3	N.G. Phillips
Ed322	Social Studies and the Young Child	3	N.G. Phillips
Ed324	Science and the Young Child	3	A.N. Rose
EE198-1	Internship	1	L.C. Nash
EE198-2	Internship	2	L.C. Nash
EE198-3	Internship	3	L.C. Nash
EE298-1	Internship II	1	L.C. Nash
EE298-2	Internship	2	L.C. Nash
EE298-3	Internship	3	L.C. Nash
Eng255	Postapocalyptic Fiction (W)	3	C. Hoffman
ESci110	Introduction to Physical Geology and Meteorology	3	E.R. Potapov
ESci110L	Intro to Physical Geology and Meteorology Lab	1	E.R. Potapov
ESci110L(1)	Intro to Physical Geology and Meteorology Lab	1	E.R. Potapov
FA101	Aegean to Early Christian (II)	3	J. Kline
FA120	Metal Work I	3	J. Kline
FA140 +	Drawing and Painting	3	M. Gyllenhaal
FA205	Introduction to American Architectural History	3	S.E. Hartley
FA232	Computer Assisted Design	3	K. Cooper
FA240 +	Intermediate Painting	3	M. Gyllenhaal
FE1	Field Experience I: Observation	2.5	A.N. Rose
FESpEd	Field Experience in Special Education	3	S. Wong
Geog110	World Regional Geography	3	A. Yardumian
Hist112	The Viking World	3	S.B. Lawing
Hist205	The Witch-Hunt in Early Modern Europe	3	S.B. Lawing
Hist298G	Glencairn Museum Internship	1	A. Yardumian
Hist305	The Creation of Democracy: Athens and America	3	D.G. Rose
Hist398G	History Internship II	1	A. Yardumian
HSoc401	Capstone Seminar I (II)	3	A. Yardumian
ID494	Senior Seminar I	1	D.A. Synnestvedt
Math095(2)	Preparation for Quantitative Reasoning	1	M.T. Genzlinger

Math101(2)	Introduction to Quantitative Reasoning (QR)	3	N. Simonetti
Math140	Elements of Calculus (QR)	3	A.J. Bedford
Math150	Calculus I	3	C.B. Bongers
Math150(1)	Calculus I	3	C.B. Bongers
Math150L	Calculus I Lab	1	C.B. Bongers
Math150L(1)	Calculus I Lab	1	C.B. Bongers
Math240	Linear Algebra (QR)	3	N. Simonetti
Math493	Senior Literature Review	2	N. Simonetti
Math494	Senior Seminar I	1	D.A. Synnstedt
Mus100	College Chorale	1	G. Bier
PE103	Life and Health	1	S. Jones
PE110	Tennis	1	D. Sheaffer
Phil102	Introduction to Philosophy (Worldview)	3	M.E. Latta
Phil321	Swedenborg's Philosophy	3	S.D. Cole
Phil493	Senior Literature Review	3	D.A. Synnstedt
PSci210	American Government and Politics (PP)	3	D.G. Rose
Psyc101	Introductory Psychology	3	K. Frey
Psyc201	Abnormal Psychology	3	K.K. Rogers
Psyc205	Social Psychology (PP)	3	K. Frey
Psyc285	Positive Psychology: The Science of Living Happily (EE)	3	L.C. Nash
Psyc490	Research Methods in Psychology (IL)	3	F. Cavallo
Rel101	Introduction to New Church Doctrines (SpDoc)	3	R.J. Silverman
Rel101(2)	Introduction to New Church Doctrines (SpDoc)	3	M. Genzlinger
Rel101(3)	Introduction to New Church Doctrines (SpDoc)	3	G.R. Schnarr
Rel101(4)	Introduction to New Church Doctrines (SpDoc)	3	G.R. Schnarr
Rel101(5)	Introduction to New Church Doctrines (SpDoc)	3	C. Glenn
Rel110	Introduction to Systematic Theology (SpDoc)	3	S.I. Frazier
Rel210	Divine Providence and Human Prudence (IL) (SpDoc)	3	A.M.T. Dibb
Rel215	The Lord (SpDoc)	3	T.P. Glenn
Rel221	The Histories and Prophets of the Old Testament (SpScript)	3	S.I. Frazier
Rel272	Advanced Religious Ethics (SpApl)	3	R.J. Silverman
Rel301	New Church Perspectives on Human Sexuality (SpApl)	3	C. Barber
Re320	Judgment, Providence, and Human Society. (PP, Doctrinal, Applied)	3	S.I. Frazier
Soc110	Introduction to Sociology	3	S. Anderson III
Span101	Introductory Spanish I	3	Staff
SpEd111	Introduction to Special Education	3	I. Simons
SpEd331	Classroom Management and Behavioral Support	3	K.M. Ballard

	SpEd334	Assistive Technology in the Classroom	1	K. Goldynia
	Writ100	Academic Writing	3	A. Nash
	Writ101	Expository Writing (W)	3	C. Hoffman
	Writ101(1)	Expository Writing (W)	3	C. Hoffman
	Writ101(2)	Expository Writing (W)	3	A. Nash
	Writ101(3)	Expository Writing (W)	3	A. Nash
	Writ202	Writing About Literature (W) (IL)	3	R. Cooper
	Writ202(1)	Writing About Literature (W) (IL)	3	T.P. Glenn
	Writ202(2)	Writing About Literature (W) (IL)	3	R. Cooper

+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 2018-19 Undergraduate Courses

## Biology

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### Biology 122. Introduction to Biology: Genetics and Evolution.

Introduction to principles of genetics and evolution; one of a two-course gateway series that is required for prospective biology majors. Includes Mendelian and non-Mendelian inheritance, quantitative genetics, evolution, natural selection, genetic drift, kin selection, speciation, molecular evolution, and phylogenetic analysis. Course concludes with a survey of the Kingdoms of life.

3 Credits.

### Biology 122 Lab. Introduction to Biology: Genetics and Evolution Lab.

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.

Prerequisites: High School Chemistry and Biology 122 and 123, with a grade of “C” or better in each.

3 Credits.

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

1 Credit.

### Biology 490. Biology Seminar I.

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

1 Credit.

## Business

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### Business 141. Accounting I.

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

3 Credits.

### **Business/Writing 220. Business Communications. (W)**

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

Prerequisite: Writing 101.

3 Credits.

### **Business 254. Principles of Marketing.**

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

3 Credits.

### **Business/Environmental Science 272. Drone Applications in Business and Science.**

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

3 Credits.

### **Business 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 493. Senior Literature Review.**

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

Prerequisite: Business 390.

2 Credits.

### **Business 494. Senior Seminar I.**

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

Prerequisite: Business 390.

1 Credit.

## Chemistry

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### Chemistry 101. Introduction to Chemistry.

Introduction to college chemistry. Course designed with two audiences in mind-students preparing for general chemistry, and non-science majors. No prior chemical knowledge assumed, but mathematical skills equivalent to Mathematics 100 expected. Topics covered include atomic theory, organization of matter, the mole concept, naming of chemical compounds, chemical bonding and reactions, phases of matter, and kinetics.

3 Credits.

### Chemistry 101 Lab. Introduction to Chemistry Lab.

1 Credit.

### 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.

Prerequisite: Chemistry 111.

3 Credits.

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

Includes basic techniques in organic chemistry and computer based molecular modeling.

1 Credit.

## Communication

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### Communication 105. Public Speaking. (PP)

Exposure to a variety of speaking situations designed to address inhibitions and develop self-confidence. Class work features impromptu and prepared speeches, as well as oral interpretation of literature and choral speaking. Work on voice and speech improvement as well as command of body language.

3 Credits.

## Computer Science

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

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

3 Credits.

## Dance

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### Dance 131/231. Modern Contemporary Dance. (EEC)

Beginner (Dance 131) and Intermediate (Dance 231) course in contemporary modern dance. Students develop technique and body awareness, and deeper understanding of modern dance and its place in the art world. Explore the diversity and commonality of human experience and values through the medium of dance. Includes choreography projects and culminates in a public performance at the Fall Dance Concert. Course may be repeated once for credit.

Prerequisite for Dance 231: Dance 131 or instructor's permission. Also serves as a PE course.

1.5 Credits.

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

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

1.5 Credits.

### Dance 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 241. History of Twentieth-Century American Dance.

Survey of concert dance forms (ballet, modern/contemporary, jazz/musical theatre, tap in America in the 20<sup>th</sup> century. Course includes readings, lectures, films, discussions, and analysis of individual styles and cultural trends. Course culminates in a research project on a specific dance form or choreographer, focusing on how the form or individual developed in relation to cultural trends.

3 Credits.

### Dance 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.

2 Credits.

## Economics

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### Economics 131. Macroeconomics. (QR)

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

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

3 Credits.

## Education

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### Education 202. Moral Education. (Moral)

After exploring the origins of morality and how it is developed within the individual and society, this course focuses on how to best support moral, pro-social behavior in a school setting. Special attention will be given to the role of storytelling in moral education.

3 Credits.

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

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

3 Credits.

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

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

3 Credits.

### Education 322. Social Studies and the Young Child.

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

Prerequisites: Education 128 or 271.

3 Credits.

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

Students explore a variety of activities suitable for young children in the context of a garden-based curriculum and examine theories of cognitive development as they relate to the teaching of science. Emphasis on the nature of science, how young children perceive and conceptualize the world around them, and an inquiry approach to teaching science.

3 Credits.

## English

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

Detailed study of modern depictions in literature of the end-of-days and the trending post-apocalyptic genre. Students evaluate texts under the literary constructs of plot and subplot, device, character, setting and author intent; enhance their understanding of the works through lenses of current events and social, political, and historical context; examine and discuss other mediums of the theme (television and film), including relevant analysis of other works in the genre, such as its Young Adult counterparts (*Hunger Games*, *Maze Runner*, *Divergent*, *Pure Trilogy*, etc); and experiment with their own perceptions of the apocalypse via a creative project.

Prerequisite: Writing 101.

3 Credits.

## Earth Science

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### 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.

Prerequisite or co-requisite: Mathematics 101 (or placement out of Mathematics101).

3 Credits.

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

1 Credit.

## Experiential Education

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

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

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

Course may be repeated for academic credit by arrangement.

Credit variable.

## Field Experience

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### 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 that they have learned in their coursework. Students will gain hands-on experiences with exceptional children, experience the different types and levels of service delivery, and reflect on how, when, and why specific evidence-based practices are implemented. Student will start in the "Observation" phase and gradually take on increased responsibilities throughout the term.

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

3 Credits.

## Fine Arts

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### Fine Arts 101/201. Aegean to Early Christian. (II)

Introductory survey of art and architecture covering Aegean, Greek, Etruscan, Roman, Early Christian, and Byzantine art. Study of works from Glencairn's collection. Trip to the Metropolitan Museum of Art in New York.

3 Credits.

### \*Fine Arts 120. Metal Work I.\*\*

Introduction to basic metalworking techniques in copper, brass, and silver including sawing, piercing, embossing, form folding, cold joining, soldering, and setting cabochon stones. Inspired by the magnificent examples in Glencairn.

3 Credits.

### Fine Arts 140. Drawing and Painting.

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

3 Credits.

### Fine Arts 205. Introduction to American Architectural History.

An overview of architectural developments in the United States within the larger context of American ideals and historic events. Covers the progression of style and form. Introduces students to architectural concepts and terms. Special attention given to artists influenced by Swedenborg including Daniel Burnham, William Strickland, Harold T. Carswell, A. Page Brown, Theophilus Parsons Chandler, and Langford H. Warren. Students research and present a topic of their choice.

3 Credits.

### Fine Arts 232. Computer Assisted Design.

An introduction to two-dimensional computer aided drawing using AutoCAD and three-dimensional drawing using SketchUp. The course covers basic commands, file maintenance, creation of 2D drawings, isometric views and plotting. Student acquire the skills necessary to draw basic mechanical parts and architectural diagrams.

3 Credits.

### Fine Arts 240. Intermediate Painting.

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

Prerequisite: Fine Arts 140.

3 Credits.

## Geography

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### Geography 110. World Regional Geography.

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

3 Credits.

## History

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### 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 205. Topics in History.

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

3 Credits.

### 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.

### History 305. Topics in History.

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

3 Credits.

## Human Society

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

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

## Independent Studies

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In addition to the listed courses, all areas offer independent studies numbered 299 or 399 with variable credit. The purpose of an independent study is to allow well-qualified students to study beyond the regularly offered courses. Students who undertake independent studies must be able to work independently between meetings with the instructor and have completed a minimum of 33 credits with a GPA of at least 2.70. Planning ahead is necessary: independent study proposals, syllabi, and required registration paperwork must be completed well before the term in which the study is to occur. Full details can be found in the undergraduate student handbook.

## Interdisciplinary Studies

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### Interdisciplinary Studies 494. Senior Seminar I.

For seniors in the Interdisciplinary Major. Focus on developing a spiritual perspective on the student's capstone project using Swedenborgian and other principles.  
Prerequisite: C- or better in Interdisciplinary Studies 390.  
1 Credit.

## Mathematics

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### Mathematics 095. Preparation for Quantitative Reasoning.

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

1 Credit.

### Mathematics 101. Introduction to Quantitative Reasoning. (QR)

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

3 Credits.

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

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

Prerequisite: Mathematics 115 or appropriate score on placement test.

3 Credits.

### Mathematics 150. Calculus I.

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

Prerequisite: C– or better in Mathematics 120 or Mathematics 124 or appropriate score on 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.

### Mathematics 494. Senior Seminar I.

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

Prerequisite: C– or better in Mathematics 390.

1 Credit.

## Music

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### Music 100. College Chorale.

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

1 Credit.

## Philosophy

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

Survey of some major philosophers and theories in metaphysics, epistemology, and the philosophy of religion. 3 Credits.

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

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

3 Credits.

### Philosophy 493. Senior Literature Review.

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

Prerequisite: Interdisciplinary Studies 390.

3 Credits.

## Physical Education

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### Physical Education 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 110. Tennis.

Instruction in basic and intermediate individual skills. Practice in singles and doubles tennis play, including game strategy, rules, and etiquette. Course may be repeated once for credit.

1 Credit.

## Political Science

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### 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.

## Psychology

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### Psychology 101. Introductory Psychology.

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

3 Credits.

### Psychology 201. Abnormal Psychology.

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

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

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

Study of behavior and cognition in social contexts. Topics include aggression, altruism, influence, love, prejudice, and conformity. Swedenborgian concepts of love, charity, and obedience analyzed. Public Presentation skills emphasized.

Prerequisite: Psychology 101 or department chair permission.

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.

3 Credits.

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

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, Psychology 320, and Mathematics 130. Students must be accepted psychology majors.

3 Credits.

## Religion

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

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

3 Credits.

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

A comprehensive overview of New Church doctrine. Emphasis on core doctrines of the Lord, faith and charity, the Word, the afterlife, the mind, Divine providence, judgment, and marriage. Presupposes a moderate familiarity with New Church teachings.

3 Credits.

### Religion 210. Divine Providence and Human Prudence. (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 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 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 272. Advanced Religious Ethics. (Applied)

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

3 Credits.

### Religion 301. Topics in New Church Theology (Applied).

Selected topic of study with a focus on the Heavenly Doctrines.

3 Credits.

### Religion 320. Judgment, Providence, and Human Society. (PP, Doctrinal, 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. The books of the Heavenly Doctrines Last Judgment and Continuation of the Last Judgment will be read in full.

3 Credits.

## Sociology

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### Sociology 110. Introductory Sociology.

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

3 Credits.

## Spanish

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### Spanish 101. Introductory Spanish I.

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

3 Credits.

## Special Education

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

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

3 Credits.

### Special Education 331. Classroom Management and Behavioral Support.

Examination of what it means to lead and manage a differentiated classroom. Addresses classroom management skills of fostering a positive learning environment; planning and delivering assessment-driven instruction; implementing Positive Behavior Intervention and Support (PBIS); and conducting a Functional Behavioral Analysis (FBA).

3 Credits.

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

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

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

1 Credit.

## Writing

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### Writing 100. Academic Writing.

Development of academic writing skills in preparation for Writing 101. Intensive grammar, spelling, and punctuation instruction and practice, in conjunction with an introduction to the structure and process of academic writing. Required only for provisionally admitted freshmen before advancement to Writing 101.

3 Credits.

### Writing 101. Expository Writing. (W)

Development of informative, critical, 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 five formal essays total, including substantial revision.

Individual conferences with instructor to discuss student's writing. Required of first year students. Non-native speakers of English may take Writing 101 sophomore year.

3 Credits.

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

Analytic study of literary genres—drama, short fiction, and poetry—with emphases on writing and research. Assumes basic skills in writing and information literacy covered in Writing 101. Three papers, including substantial revision. One longer paper and its research process require locating, evaluating, and incorporating multiple secondary sources. Individual conferences with instructor to discuss student's writing. Required of sophomores.

Prerequisite: Writing 101.

3 Credits.

## Winter Term 2018-19 Undergraduate Course List

As of 3/29/2018. (Independent Study and Internship courses not listed).

BLOCK	COURSE	TITLE	CREDITS	INSTRUCTOR
	Anth240	Anthropology of Religion	3	A. Yardumian
	Anth260	Human Evolution	3	A. Yardumian
	Bio123	Introduction to Biology: Molecular Biology	3	A.F. Bryntesson
	Bio123(1)	Introduction to Biology: Molecular Biology	3	A.F. Bryntesson
	Bio123L	Introduction to Biology: Molecular Biology Lab	1	G.R. McMackin
	Bio123L(1)	Introduction to Biology: Molecular Biology Lab	1	G.R. McMackin
	Bio123L(2)	Introduction to Biology: Molecular Biology Lab	1	G.R. McMackin
	Bio220	Human Anatomy and Physiology II	3	E. Higgins
	Bio220(1)	Human Anatomy and Physiology II	3	E. Higgins
	Bio220L	Human Anatomy and Physiology II Lab	1	E. Higgins
	Bio220L(1)	Human Anatomy and Physiology II Lab	1	E. Higgins
	Bio235	Ecology	3	E.R. Potapov
	Bio235L	Ecology Lab	1	E.R. Potapov
	Bio495	Senior Project (WC)	3	A.F. Bryntesson
	Bus141	Accounting I	3	J. Tepper
	Bus/CSc215	Management Information Systems	3	Staff
	Bus256	Principles of Sales	3	M. Swiski
	Bus268	Sports in Society	3	D. Shute
	Bus301	Business Ethics (Moral)(PP)	3	E.S. King
	Bus301(1)	Business Ethics (Moral)(PP)	3	E.S. King
	Bus321	Advanced Financial Management	3	J. Moretti
	Bus/Mth380	Linear Models and Methods for Optimization (QR)	3	N. Simonetti
	Bus495	Senior Capstone Project (WC)	2	E. Rogers
	Chem110	General Chemistry I	3	A. Bedford
	Chem110(1)	General Chemistry I	3	A. Bedford
	Chem110L	General Chemistry I -Lab	1	S.R. Evans
	Chem110L(1)	General Chemistry I -Lab	1	S.R. Evans
	Chem110L(2)	General Chemistry I -Lab	1	G.R. McMackin
	Chem110L(3)	General Chemistry I -Lab	1	G.R. McMackin
	Chem211	Organic Chemistry II	3	L.R. Nudy
	Chem211L	Organic Chemistry II -Lab	1	L.R. Nudy
	Comm105	Public Speaking (PP)	3	S.V. Bernhardt
	Comm130	Foundations of Graphic Design	3	C. Mill
	Dan130	Musical Theater Dance (EEc)	1.5	J.R. Bostock

Dan134	Ballet (EEc)	1.5	J.R. Bostock
Dan160	Dance Ensemble (EEc)	1.5	J.R. Bostock
Dan495	Senior Essay (WC)	2	J.R. Bostock
Econ132	Microeconomics (QR)	3	E.S. King
Ed201	Foundations of Education (Worldview)	3	N.G. Phillips
Ed218	Literacy Instruction for Young Learners I	3	N.G. Phillips
Ed272	Child Development: Birth to Age Nine	3	A.N. Rose
Ed323	Math and the Young Child	3	A.N. Rose
Ed402	Student Teaching (EE)	12	K.M. Ballard
EE198-1	Internship	1	L.C. Nash
EE198-2	Internship	2	L.C. Nash
EE198-3	Internship	3	L.C. Nash
EE298-1	Internship II	1	L.C. Nash
EE298-2	Internship	2	L.C. Nash
EE298-3	Internship	3	L.C. Nash
EE398	Internship III	1	L.C. Nash
Eng218	American Literature I	3	R.S. Cooper
Eng367	The Modern Novel (II)	3	K. King
Eng495	Senior Seminar: Career Preparation	1	K. King
FA102	Renaissance and Baroque Art (II)	3	J. Kline
FA112	Medieval Art	3	J.Kline
FA122	Forging	3	M. Rossi
FA128	Glass Painting	3	J.K. Leap
FA130 +	Ceramics	3	C.K. Orthwein
FA141 +	Building Arts Foundation	3	J.K. Leap
FA155	Introduction to Craft Practice	3	S.E. Hartley
FA222	Intermediate Forging	3	M. Rossi
FA228	Intermediate Stained Glass Painting	3	J.K. Leap
FA230 +	Intermediate Ceramics	3	C.K. Orthwein
FA241 +	Building Arts Foundation II	3	S.E. Hartley
FA252(1)	Introduction to Welding and Machine Work	3	M. Rossi
FE2	Field Experience II: Exploration	3	N.G. Phillips
Hist114	The Classical World (II)	3	S.B. Lawing
Hist298G	Glencairn Museum Internship	1	A. Yardumian
Hist330	Twentieth-Century American History Seminar	3	D.G. Rose
Hist398G	History Internship II	1	A. Yardumian
HSoc402	Capstone Seminar II (WC)	3	S.B. Lawing

Lat250	Swedenborg's Theological Latin I	3	S.I. Frazier
Math095	Preparation for Quantitative Reasoning	1	M.T. Genzlinger
Math101	Introduction to Quantitative Reasoning (QR)	3	E. van der Merwe
Math115	College Algebra (QR)	3	M.T. Genzlinger
Math130	Introduction to Statistics (QR)	3	C.B. Bongers
Math130L	Introduction to Statistics Lab(QR)	1	C.B. Bongers
Math130L(1)	Introduction to Statistics Lab(QR)	1	C.B. Bongers
Math151	Calculus II	4	N. Simonetti
Math205	History of Mathematics (II)	3	N. Simonetti
Math495	Senior Essay (WC)	2	N. Simonetti
Mus100	College Chorale	1	G. Bier
PE129	Badminton	1	H. Bryntesson
PE133	Yoga	1	A. Irwin
Phil101	Critical Thinking	3	D.A. Synnestvedt
Phil102	Introduction to Philosophy (Worldview)	3	D.A. Synnestvedt
Phil102(1)	Introduction to Philosophy (Worldview)	3	M.E. Latta
Phil210	Ancient Philosophy	3	M.E. Latta
Phil495	Senior Essay	3	D.A. Synnestvedt
Phys210	Principles of Physics I (QR)	3	E. van der Merwe
Phys210L	Principles of Physics I - Lab	1	E. van der Merwe
Phys210L(1)	Principles of Physics I - Lab	1	E. van der Merwe
PSci101	Introduction to Politics and Governance (Civil)	3	D.G. Rose
PSci101(1)	Introduction to Politics and Governance (Civil)	3	D.G. Rose
PSci101(2)	Introduction to Politics and Governance (Civil)	3	D.G. Rose
PSci212	International Relations	3	Staff
Psyc102	Worldviews and History of Psychology (Worldview)	3	K. Frey
Psyc204	Human Development: Lifespan	3	K. Frey
Psyc301	Counseling and Clinical Psychology	3	K.K. Rogers
Psyc307	Psychological Measurement	3	F. Cavallo
Psyc491	Senior Research Seminar (WC)	3	K. Frey
Rel101	Introduction to New Church Doctrines (SpDoc)	3	R.J. Silverman
Rel101(1)	Introduction to New Church Doctrines (SpDoc)	3	G.R. Schnarr
Rel101(2)	Introduction to New Church Doctrines (SpDoc)	3	G.R. Schnarr
Rel101(3)	Introduction to New Church Doctrines (SpDoc)	3	M. Genzlinger
Rel115	Introduction to New Church Doctrine on Life After Death (SpDoc)	3	S.I. Frazier
Rel125	The Holy Scripture (SpDoc)	3	S.D. Cole
Rel205	God, Man, and Creation (II)(SpDoc)	3	C. Glenn

Rel273	Religion and Marriage (SpAppl)(W)	3	R.J. Silverman
Rel273(1)	Religion and Marriage (SpAppl)(W)	3	Staff
Rel284	Christian Religious History (SpComp)	3	A.M.T. Dibb
Rel310	Studies in Arcana Coelestia (W)(SpDoc)	3	T.P. Glenn
Rel335	The Human Mind (SpDoc)	3	S.D. Cole
Rel490	Religion Senior Project I (WC)	3	S.I. Frazier
Span102	Introductory Spanish II	3	Staff
SpEd212	Supporting Students with Disabilities	3	K. Godynia
SpEd312	Classroom Assessments	3	L.B. Synnestvedt
Thea120	Set Design and Production (EE)	3	N. Haus-Roth
Writ100	Academic Writing	3	A. Nash
Writ101	Expository Writing (W)	3	Staff
Writ101(1)	Expository Writing (W)	3	K. King
Writ101(2)	Expository Writing (W)	3	T.P. Glenn
Writ202	Writing About Literature (W) (IL)	3	C. Hoffman
Writ202(1)	Writing About Literature (W) (IL)	3	S. Bernhardt
Writ202(2)	Writing About Literature (W) (IL)	3	Staff
Writ211	Creative Writing (W)	3	A. Nash

+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 2018-19 Undergraduate Courses

## Anthropology

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### Anthropology 240. Anthropology of Religion.

This course presents a theoretical perspective on religion as a cultural phenomenon. It 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.

## Biology

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

The second of a two-course gateway series that is required for prospective biology majors. Biological concepts are illustrated by means of molecular biology, from storage and maintenance of biological information necessary for life to its expression in the organism to diverse applications in health, medicine and food production. Topics include a general introduction to the cell and its components, cell division and the cell cycle, DNA structure and synthesis, chromosome structure and organization, mutations and their repair, genetic engineering, transcription and its regulation, the genetic code, and translation of genetic information to proteins.

Prerequisite: Chemistry 101L or High School Chemistry.

3 Credits.

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

This course requires a lab fee.

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.

Prerequisite: Biology 210 with a grade of “C” or better.

3 Credits.

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

This course requires a lab fee.

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.

Prerequisites: Biology 122 and 123.

3 Credits.

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

1 Credit.

### **Biology 495. Senior Project.**

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

3 Credits.

## **Business**

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

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

3 Credits.

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

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

Prerequisite: Communication 105. Recommended: Business 254.

3 Credits.

### **Business 268. Sports in Society.**

This course will explore the connections among amateur sports, collegiate sports, professional sports, and American society; including how sports and American culture have influenced each other, and how understanding this influence can impact sports marketing. Issues of gender and race discrimination in American sports, as well as the economic impact of hosting professional sports franchises and publicly funded stadiums, will also be discussed.

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 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/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.**

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

Prerequisites: Business 493 and Business 494.

2 Credits.

## Chemistry

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### Chemistry 110. General Chemistry I.

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

Prerequisite: One year of high school chemistry with a grade of C or better or Chemistry 101 or Earth Science 110.

3 Credits.

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

This course requires a lab fee.

1 Credit.

### Chemistry 211. Organic Chemistry II.

Continuation of Chemistry 210. Topics include spectrophotometric identification of organic compounds, arenes, esters, epoxides, aldehydes and ketones, carboxylic acids and acid derivatives, and condensation reactions. Emphasis on biological applications of organic chemistry.

Prerequisite: Chemistry 210.

3 Credits.

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

Includes synthetic techniques and computational chemistry.

1 Credit.

## Communication

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### Communication 105. Public Speaking. (PP)

Exposure to a variety of speaking situations designed to address inhibitions and develop self-confidence.

Class work features impromptu and prepared speeches, as well as oral interpretation of literature and choral speaking. Work on voice and speech improvement as well as command of body language.

3 Credits.

### Communication 130. Foundations of Graphic Design.

Introductory study of how to create and communicate graphic ideas effectively. Covers elements of design, spatial relationships, typography, and imagery as they apply to graphic communication for print and web.

Students will develop graphic design skills (the ability to solve visual communication problems) by integrating Adobe Creative Suite software skills and foundational design concepts. Software instruction in basics of such programs as InDesign, Illustrator and possibly Photoshop.

3 Credits.

## Dance

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### Dance 130. Musical Theater Dance. (EEC)

Musical Theater Dance introduces students to a variety of dance styles used in American Musical Theatre. Students will learn tap and jazz dance technique as well as specific dances from Broadway musicals choreographed by Robbins, Fosse, Champion, and more. Includes an overview of the history of Broadway, specific to dance styles and choreographers. Course culminates in a final performance. Course may be repeated once for credit. Also serves as a PE course.  
1.5 Credits.

### Dance 134/234. Ballet. (EEC)

Beginner (Dance 134) and Intermediate (Dance 234) course in ballet technique. Introduction to and development of the fundamentals of ballet technique and vocabulary, emphasizing alignment, stretching and strengthening, flexibility, kinesthetic awareness, line and movement phrases. This course culminates in a public performance at the end-of-term concert. Course may be repeated once for credit.  
Prerequisite for Dance 234: Dance 134 or instructor's permission. Also serves as a PE course.  
1.5 Credits.

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

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

### Dance 495. Senior Essay.

Capstone experience for the Interdisciplinary Major. Writing of the senior essay based on the research and outline produced in Dance 493.  
Prerequisites: Dance 493 and Interdisciplinary Studies 494.  
2 Credits.

## Economics

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### Economics 132. Microeconomics. (QR)

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

## Education

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### Education 201. Foundations of Education. (Worldviews)

Study of world views and associated theories that impact education. Examination of questions such as: What is the nature of reality? How do we know what we know? How do we determine what is worth knowing? What is of value? Focus on how a New Church philosophy of education affects teachers and students.  
3 Credits.

### Education 218. Literacy Instruction for Young Learners I.

This course exposes students to theory and practice in literacy instruction, pre-kindergarten through grade 4. Emphasis on emergent literacy, techniques and skills of teaching reading and language arts, evaluation and assessment. Includes 1 credit hour of ELL.  
Prerequisite: Education 128 or Education 217.  
3 Credits.

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

Teachings about human development from the theology of Swedenborg are compared with major theories of child development. Emphasis on the sensory needs of early childhood and how to create a nurturing environment for physical, mental, and socio-emotional health.  
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.

## English

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### English 218. American Literature I.

Chronological survey of American writers from colonial times to the late 19<sup>th</sup> century. Particular attention paid to themes such as nature, religion, freedom (or lack thereof), and the shaping of “American” values and identities. Authors include Hawthorne, Poe, Dickinson, Melville, Emerson, Thoreau, and Whitman, among others

Prerequisite: Writing 101.

3 Credits.

### English 367. The Modern Novel. (II)

Study of selected early 20<sup>th</sup>-century novels. Emphasis on how these works reshape 19<sup>th</sup>-century forms and subjects to reflect changes (demographic, political, social) in the modern world. Includes such writers as James, Woolf, Faulkner, Hurston, and Hemingway.

Prerequisites: Writing 202 and any 200-level English course.

3 Credits.

### English 495. Senior Seminar: Career Preparation.

Focus on professional transition to workplace or graduate school. Guest speakers and faculty present recent trends in English studies and in employment for English majors. Students propose (or present if completed) their capstone work as well as give evidence of facility in the software and technology skills required of BAC English graduates. Students network with alumni at a distance or in town to support an outreach effort requiring communication skills and fostering any aspect of the mission’s focus on intellectual, moral, civil, and spiritual development.

1 Credit.

## Experiential Education

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

The internship course is open to students with a 2.7 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 learning plan, reflective component, and an analytical component (e.g., essay, paper, or presentation). Individual learning plans are retained in the office of Internship. This course satisfies the EE requirement.

Course may be repeated for academic credit by arrangement.

Credit variable.

## Fine Arts

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### Fine Arts 102. Renaissance and Baroque Art. (II)

Introductory survey of architecture, sculpture, and painting covering Renaissance, Reformation, and Counter-Reformation art. Includes artists such as Vermeer, Rembrandt, Michelangelo, da Vinci, Bernini, Caravaggio, and others. Trip to Metropolitan Museum of Art in New York.  
3 Credits.

### Fine Arts 112/212. Medieval Art and Its Revivals.\*\*

Using one of the finest collections of medieval art in the world (Glencairn Museum), this course surveys the art of Medieval Europe, particularly that of France, focusing on the evolution of sacred imagery, and how it reflects and shapes the attitudes of the period. It also covers medieval revivals in 19<sup>th</sup>-century England and 19<sup>th</sup>-20<sup>th</sup> century America. Highlights include: Early Christian sculpture, Celtic manuscripts, Romanesque sculpture, Gothic cathedrals, and Gothic revivals including aspects of the Arts and Crafts movement. Students solve problems posed by some of Glencairn's pieces and develop a research topic.  
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.  
3 Credits.

### Fine Arts 128. Stained Glass Painting.

Introduction to traditional and innovative techniques in glass painting. Inspired by the magnificent examples in Glencairn 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.  
3 Credits.

### Fine Arts 141. Building Arts Foundation.

Introduction to the Building Arts curriculum by focusing on fundamental design and drawing principles essential to all craft disciplines. Students learn to communicate ideas, design and execute projects through sketches, hand drawings and computer-generated drawings.  
3 Credits.

### Fine Arts 155. Introduction to Craft Practice.

This course introduces students to the various building arts practiced at Bryn Athyn College – metal, glass, stone and wood. Students complete projects in all four disciplines learning the properties, techniques, and creative possibilities of each. This introduction helps students choose a craft specialization for their major. (at present the two options are metal and glass).  
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.

Prerequisite: FA 122.

3 Credits.

### **Fine Arts 228. Intermediate Stained Glass Painting**

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

Prerequisite: FA 128.

3 Credits.

### **Fine Arts 230. Intermediate Ceramics.**

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

Prerequisite: Fine Arts 130.

3 Credits.

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

This course builds upon skills acquired in FA 221 Building Arts Foundation I and provides opportunities to practice design principles while further developing the hand skills essential to all craft disciplines. Students are presented with visual problems to solve that relate to various lecture topics. Students use preparatory drawings and models to communicate ideas then execute projects in a variety of materials. Students work independently and in groups to solve design challenges. Emphasis is placed on teamwork, accuracy, and craftsmanship. The collections and models in the Glencairn Museum support these endeavors.

3 Credits.

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

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

3 Credits.

## Field Experience

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### 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.

## History

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

Historical survey of ancient Greece and Rome from Mycenaean civilization to the fall of the Roman Empire in the west. Particular attention to political trends and the role of religion in Greek and Roman societies.

Examination of textual and archaeological evidence. Guided development of a research paper.

3 Credits.

### History 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.

### 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.

## Human Society

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### Human Society 402. Capstone Seminar II.

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

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In addition to the listed courses, all areas offer independent studies numbered 299 or 399 with variable credit. The purpose of an independent study is to allow well-qualified students to study beyond the regularly offered courses. Students who undertake independent studies must be able to work independently between meetings with the instructor and have completed a minimum of 33 credits with a GPA of at least 2.70. Planning ahead is necessary: independent study proposals, syllabi, and required registration paperwork must be completed well before the term in which the study is to occur. Full details can be found in the undergraduate student handbook.

## Latin

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### Latin 250. Swedenborg's Theological Latin I.

Intensive review of Beginning Latin, followed by varied readings in the Writings. Various styles of writing distinguished (expository, philosophical, descriptive, narrative). Special attention to non-Classical constructions.

Prerequisites: Latin 110 and 111 or approval of the instructor.

3 Credits.

## Mathematics

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### Mathematics 095. Preparation for Quantitative Reasoning.

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

1 Credit.

### Mathematics 101. Introduction to Quantitative Reasoning. (QR)

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

3 Credits.

### Mathematics 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 205. History of Mathematics. (II)

The development of the major mathematical concepts from ancient times to the present, emphasizing alternate approaches to familiar methods. Students will complete an independent research project.

Prerequisite: Mathematics 140 or Mathematics 150.

3 Credits.

### Mathematics 495. Senior Essay.

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.

## Music

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### Music 100. College Chorale.

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

1 Credit.

## Philosophy

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### Philosophy 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. (Worldview)

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

3 Credits.

### Philosophy 210. Ancient Philosophy.

Historical consideration of ancient Greek philosophy (with emphasis on Socrates, Plato, and Aristotle) or Roman philosophy (with emphasis on Cicero, Aurelius, and Seneca). Strongly recommended: Philosophy 101.

Prerequisite: Philosophy 102.

3 Credits.

### Philosophy 495. Senior Essay.

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

Prerequisites: Philosophy 493 and Interdisciplinary Studies 494.

3 Credits.

## Physical Education

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### Physical Education 129. Badminton.

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

1 Credit.

### Physical Education 133. Yoga.

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

1 Credit.

## Physics

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### Physics 210. Principles of Physics I. (QR)

Calculus-based course providing an introduction to rigid body mechanics, gravity, waves, and heat. Problem and laboratory assignments complement the lectures.

Co-requisite or Prerequisite: Mathematics 150.

3 Credits.

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

1 Credit.

## Political Science

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

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

3 Credits.

### Political Science 212. International Relations.

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

3 Credits.

# Psychology

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## Psychology 102. Worldviews and History of Psychology. (Worldview)

Survey of six major psychological worldviews. Analysis of worldviews in terms of their history, key people, main concepts, and major contributions to the field of psychology in modern times. Three themes addressed for each worldview: “What is the good life?”, “What remedies are available when things go wrong for human beings?”, and “Is this a Theistic worldview?”

3 Credits.

## Psychology 204. Human Development: Lifespan.

Study of human development, focusing on the most significant changes that occur across the lifespan. Topics include theories of physical-motor, cognitive, language, creative, social, emotional, moral, and spiritual development.

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 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 setting. 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 491. Senior Research Seminar.

Capstone for seniors in the psychology major. Independent work on Senior Essay guided by an advisor. Information Literacy and Writing Skills emphasized.

3 Credits.

## Religion

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

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

3 Credits.

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

New Church teachings on the life after death studied in their own context and the context of the near-death experience and the history of eschatology. Text: *Heaven and Hell*.

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. (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 284. Christian Religious History. (Comparative)

Thorough grounding in Christian history. Survey of the personalities, theological and doctrinal issues, and events of Christianity. Christian divisions and present world-impact. Comparison with New Church perspective.

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 335. The Human Mind. (Rel335 W is W, Doctrinal)

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 490. Religion Senior Project I.

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

3 Credits.

## Spanish

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### Spanish 102. Introductory Spanish II

Continuing introduction to the Spanish language.

Prerequisite: Spanish 101 or equivalent as determined by placement test. Spanish is the language of instruction.

3 Credits.

## Special Education

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

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

Prerequisite: Special Education 111.

3 Credits.

### Special Education 312. Classroom Assessments.

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

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

3 Credits.

## Theater

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

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

Credit variable.

## Writing

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### Writing 100. Academic Writing.

Development of academic writing skills in preparation for Writing 101. Intensive grammar, spelling, and punctuation instruction and practice, in conjunction with an introduction to the structure and process of academic writing. Required only for provisionally admitted freshmen before advancement to Writing 101. 3 Credits.

### Writing 101. Expository Writing. (W)

Development of informative, critical, 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 five formal essays total, including substantial revision. Individual conferences with instructor to discuss student's writing. Required of first year students. Non-native speakers of English may take Writing 101 sophomore year. 3 Credits.

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

Analytic study of literary genres—drama, short fiction, and poetry—with emphases on writing and research. Assumes basic skills in writing and information literacy covered in Writing 101. Three papers, including substantial revision. One longer paper and its research process require locating, evaluating, and incorporating multiple secondary sources. Individual conferences with instructor to discuss student's writing. Required of sophomores.

Prerequisite: Writing 101.

3 Credits.

### Writing 211. Creative Writing. (W)

Workshop approach to various forms of creative writing, with emphasis determined by year and instructor. Students explore and recreate the defining qualities of selected genres. Individual conference in addition to in-class instruction and workshops. Grade of B- or better in Writing 101 or permission of instructor.

3 Credits.

## Spring Term 2018-19 Undergraduate Course List

As of 3/29/2018. (Independent Study and Internship courses not listed).

<b>BLO C K</b>	<b>COURSE</b>	<b>TITLE</b>	<b>CREDI T S</b>	<b>INSTRUCTOR</b>
	Anth110	An Introduction to Cultural Anthropology	3	A. Yardumian
	Anth110(1)	An Introduction to Cultural Anthropology	3	A. Yardumian
	Anth312	European Folk and Fairy Tales	3	S.B. Lawing
	Bio225	Ornithology	3	E.R. Potapov
	Bio225L	Ornithology Lab	1	E.R. Potapov
	Bio232	Cell Structure and Function	3	A.F. Bryntesson
	Bio250	Microbiology	3	E. Higgins
	Bio250L	Microbiology Lab	1	E. Higgins
	Bio310	Molecular Biology: DNA and Gene Expression	3	A.F. Bryntesson
	Bio315	Principles of Biochemistry	3	A.J. Bedford
	Bio373	Biological Laboratory Techniques: Molecular Biology	2	S.R. Evans
	Bio373(1)	Biological Laboratory Techniques: Molecular Biology	2	S.R. Evans
	Bio380	Research Seminar (IL)(PP)	1	E. Higgins
	Bio492	Biology Seminar III	1	E.R. Potapov
	Bus142	Accounting II	3	C. Waltrich
	Bus257	Principles of Management	3	W.B. Junge
	Bus290	Internship Preparation Seminar	1.5	B. Junge
	Bus302	Corporate Social Responsibility	3	W.B. Junge
	Bus351	Introduction to Business Law	3	E. Rogers
	Bus354	Marketing Research	3	M. Swiski
	Bus390	Research Seminar(IL)	2	E.S. King
	Bus496	Senior Seminar II (PP)	1	L.C. Nash
	Chem111	General Chemistry II (QR)	3	L.R. Nudy
	Chem111(1)	General Chemistry II (QR)	3	A.J. Bedford
	Chem111L	General Chemistry II -Lab	1	S.R. Evans
	Chem111L(1)	General Chemistry II -Lab	1	G.R. McMackin
	Chem111L(2)	General Chemistry II -Lab	1	G.R. McMackin
	Comm105	Public Speaking (PP)	3	S.V. Bernhardt
	CSci160	World Wide Web Development	2	Staff
	CSci180	Structured Programming	3	N. Simonetti
	CSci260	World Wide Web Languages	1	N. Simonetti

Dan133	Tap Dance (EEc)	1.5	J.R. Bostock
Dan499	Independent Study in Dance	3	J.R. Bostock
Econ132	Microeconomics (QR)	3	E.S. King
Econ132(1)	Microeconomics (QR)	3	E.S. King
Ed128	Introduction to the Theory and Practice of Education(PP)	3	A.N. Rose
Ed128(1)	Introduction to the Theory and Practice of Education(PP)	3	A.N. Rose
Ed219	Literacy for Young Learners II	3	A.N. Rose
Ed274	Adolescent Growth and Development: Ages 8-18	3	N.G. Phillips
Ed402	Student Teaching (EE)	12	K.M. Ballard
EE198-1	Internship	1	L.C. Nash
EE198-2	Internship	2	L.C. Nash
EE198-3	Internship	3	L.C. Nash
EE298-1	Internship II	1	L.C. Nash
EE298-2	Internship	2	L.C. Nash
EE298-3	Internship	3	L.C. Nash
Eng105	Madness in Literature	3	R.S. Cooper
Eng219	American Literature II	3	K. King
Eng370	Twentieth Century Authors (after 1950) (W)	3	K. King
ESci110	Introduction to Physical Geology and Meteorology	3	Staff
ESci110L	Intro to Physical Geology and Meteorology Lab	1	Staff
ESci110L(1)	Intro to Physical Geology and Meteorology Lab	1	Staff
FA125	Photography	3	C.K. Orthwein
FA151	Architectural Modeling	3	S.E. Hartley
FA210	Nineteenth and Twentieth Centuries (II)	3	J. Kline
FA251	Integrating Art into a Child's Early Years	1.5	M. Gyllenhaal
FA258	Stained Glass Survey	3	J.K. Leap
FA/Hist271	Introduction to Historic Preservation	3	S.E. Hartley
FE3	Field Experience III	3	N.G. Phillips
Hist117	The Contemporary World	3	D.G. Rose
Hist240	Ancient Israel	3	W.E. Closterman
Hist276	Barbarians and the Fall of Rome	3	S.B. Lawing
Hist298G	Glencairn Museum Internship	1	A. Yardumian
Hist398G	History Internship II	1	A. Yardumian
ID390(1)	Research Seminar (II)	2	Staff
ID496	Senior Seminar II	1	L.C. Nash

Lead130	Introduction to Leadership (EE)	3	L.C. Nash
Math102	Understanding Mathematics in Society (QR)	3	N. Simonetti
Math115	College Algebra (QR)	3	Staff
Math124	Transcendental Functions (QR)	1.5	N. Simonetti
Math130	Introduction to Statistics (QR)	3	C.B. Bongers
Math130(1)	Introduction to Statistics (QR)	3	C.B. Bongers
Math130L	Introduction to Statistics Lab(QR)	1	C.B. Bongers
Math130L(1)	Introduction to Statistics Lab(QR)	1	C.B. Bongers
Math311	Ordinary Differential Equations	3	M. Blair
Math496	Senior Seminar II	1	N. Simonetti
Mus100	College Chorale	1	G. Bier
Nutr110	Principles of Nutrition	3	S. Nelson
PE170	Frisbee Sports	1	H. Bryntesson
Phil101	Critical Thinking	3	D.A. Synnestvedt
Phil102	Introduction to Philosophy (Worldview)	3	D.A. Synnestvedt
Phil111	Introduction to Moral Philosophy (Moral)	3	M.E. Latta
Phil/PS220	Political Thought (Civil)	3	D.A. Synnestvedt
Phil340	Bioethics (Moral)	3	M.E. Latta
Phys211	Principles of Physics II (QR)	3	Staff
Phys211L	Principles of Physics II -Lab	1	Staff
PSci101	Introduction to Politics and Governance (Civil)	3	R. Hodgell
Psyc101(1)	Introductory Psychology	3	K. Frey
Psyc201	Abnormal Psychology	3	K.K. Rogers
Psyc204	Human Development: Lifespan	3	K.K. Rogers
Psyc220	Cognitive Psychology	3	K. Frey
Psyc320	Introduction to Experiments in Psychology	1	F. Cavallo
Psyc380	Seminar in Forensic Psychology	3	K.K. Rogers
Psyc492	Senior Seminar	1	L.C. Nash
Rel110	Introduction to Systematic Theology (SpDoc)	3	C. Glenn
Rel115	Introduction to New Church Doctrine on Life After Death (SpDoc)	3	G.R. Schnarr
Rel115(1)	Introduction to New Church Doctrine on Life After Death (SpDoc)	3	G.R. Schnarr
Rel115(2)	Introduction to New Church Doctrine on Life After Death (SpDoc)	3	M. Genzlinger
Rel123	Introduction to the Old and New Testaments (SpScript)	3	S.I. Frazier
Rel125	The Holy Scripture (SpDoc)	3	C. Glenn

Rel205	God, Man, and Creation (IL)(SpDoc)	3	S.I. Frazier
Rel222	The Gospels (SpScript)	3	S.I. Frazier
Rel273	Religion and Marriage (SpAppl)(W)	3	R.J. Silverman
Rel278	Exploring Romantic Relationships (SpAppl)	3	R.J. Silverman
Rel285	The Modern Christian Church (SpComp)	3	A.M.T. Dibb
Rel295	Islam (SpComp)	3	D.G. Rose
Rel311	Continuation of Studies in Arcana Coelestia (W)(SpDoc)	3	T.P. Glenn
Soc110	Introduction to Sociology	3	S. Anderson III
SpEd213	Family and Community Partnership	3	S. Wong
SpEd313	Research-based Interventions	3	K.M. Ballard
Thea130	Set Design and Production (EE)	3	N. Haus-Roth
Thea150	Dramatic Performance (EEc)	3	J.R. Bostock
Writ101	Expository Writing (W)	3	C. Hoffman
Writ101(1)	Expository Writing (W)	3	T.P. Glenn
Writ202	Writing About Literature (W) (IL)	3	A. Nash
Writ202(1)	Writing About Literature (W) (IL)	3	A. Nash

+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 2018-19 Undergraduate Courses

## Anthropology

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### Anthropology 110. An Introduction to Cultural Anthropology.

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

3 Credits.

### Anthropology 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. Consideration of Hollywood adaptations and the continuing impact of folk and fairy tales on modern popular culture.

3 Credits.

## Biology

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### 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.

Prerequisites: Biology 122 and 123.

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.

1 Credit.

### 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 and 123 and Chemistry 110.

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.

Prerequisites: Biology 122 and 123.

3 Credits.

### Biology 250 Lab. Microbiology Lab.

1 Credit.

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

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

Prerequisites: Biology 230 and Chemistry 210.

3 Credits.

### **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 and Chemistry 210.

3 Credits.

### **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, genomic structure analysis, proteomics, bioinformatics, protein expression and analysis, and culturing and identifying microbiological organisms. Laboratory reports and scientific writing skills integral.

Co-requisite or prerequisite: Biology 230 and Biology 232.

2 Credits.

### **Biology 380. Research Seminar. (PP)**

Exploration of the breadth of biology career paths and research options. Guest speakers from various biological and medical fields present their work and educational background. 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. Discipline-specific resumes and C.V. developed. Course is pass/fail for biology majors.

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.

1 Credit.

## Business

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### Business 142. Accounting II.

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

Prerequisite: Business 141.

3 Credits.

### Business 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 290. Internship Preparation Seminar.

This course will introduce the requirements for internships, including the learning plan, journal entries, final projects, and relation to academic study. Students will learn employment related skills including: networking, interviewing, resume creation, attendance requirements, professional appearance, professional conduct, confidentiality, and maintaining ongoing relationships.

1 Credit.

### Business 302. Corporate Social Responsibility.

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

3 Credits.

### Business 351. Introduction to Business Law.

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

3 Credits.

### Business 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 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. (PP)**

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**

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

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

Prerequisite: Chemistry 110.

3 Credits.

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

1 Credit.

## **Communication**

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### **Communication 105. Public Speaking. (PP)**

Exposure to a variety of speaking situations designed to address inhibitions and develop self-confidence.

Class work features impromptu and prepared speeches, as well as oral interpretation of literature and choral speaking. Work on voice and speech improvement as well as command of body language.

3 Credits.

## **Computer Science**

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### **Computer Science 160. World Wide Web Development.**

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

Prerequisite: Computer Science 105 or familiarity with computers.

2 Credits.

### **Computer Science 180. Structured Programming.**

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

Prerequisite: Computer Science 105 or other programming experience with permission of instructor.

3 Credits.

### Computer Science 260. World Wide Web Languages.

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

Prerequisite: Computer Science 180 or Computer Science 206.

Co-requisite: Computer Science 160.

1 Credit.

## Dance

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### Dance 133/233. Tap Dance. (EEC)

Beginner (Dance 133) and Intermediate (Dance 233) course in tap dance. Introduction to and development of the fundamentals of tap dance technique. Emphasis is given to basic steps and terminology, building combinations, musicality, and coordination, leading to final performance. Course may be repeated once for credit.

Prerequisite for Dance 233: Dance 133 or instructor's permission. Also serves as a PE course.

1.5 Credits.

### Dance 499. Senior Project.

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

Prerequisite: Dance 332.

Credit Variable.

## Economics

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### Economics 132. Microeconomics. (QR)

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

3 Credits.

## Education

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

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

3 Credits.

### Education 219. Literacy for Young Learners II.

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

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.

## English

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### English 105. Madness in Literature (Introductory Literature Seminar).

Study of how and why madness appears so often in fiction. Considerations include its symbolic values, its use as a manipulative narrative tool, its emotional impacts, its relations to illness and genius, and its changes 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 19<sup>th</sup>-Century and early 20<sup>th</sup>-Century American authors from Twain and the rise of Realism to Willa Cather, Edith Wharton, and Henry James.

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.

## Earth Science

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### 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.

Prerequisite or co-requisite: Mathematics 101 (or placement out of Mathematics101).

3 Credits.

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

1 Credit.

## Experiential Education

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

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

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

Course may be repeated for academic credit by arrangement.

Credit variable.

### Leadership 130. Introduction to Leadership. (EE)

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

3 Credits.

## Fine Arts

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### Fine Arts 125. Photography.

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

3 Credits.

### Fine Arts 151. Architectural Modeling.

This course provides opportunities for students to develop their visualization skills in architectural design by requiring them to make three-dimensional models of two-dimensional drawings. Students will be presented with a variety of architectural modeling scenarios and will be required to develop three-dimensional models using various materials such as paper, clay, and wood. Students work independently and in groups to complete design scenarios presented to them. Emphasis is placed on communication, accuracy, and craftsmanship in architectural modeling. The collection and models in the Glencairn Museum support these endeavors.

3 Credits.

### Fine Arts 210. Nineteenth and Twentieth Centuries. (IL)

Examination of the architecture, sculpture, and painting of the late eighteenth, nineteenth, and twentieth centuries in Europe, England, and America. Special attention given to artists influences by Swedenborg, including Flaxman, Blake, Powers, Page, Gauguin, Inness, Pyle, and Burnham.

3 Credits.

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

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

1.5 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/History 271. Introduction to Historic Preservation.

This course will introduce students to the basic theory and practice of historic preservation. Major topics include preservation terminology and concepts, architectural styles, and the history of the preservation movement in the United States, including advocacy, government's role in historic preservation, and emerging/contemporary issues in historic preservation. The Bryn Athyn Historic District and other historic structures in the local community will be used extensively as illustrations for topics throughout the course. This is not a methods and materials conservation course. Material is presented through lectures, guest lectures, class discussion and field trips.

3 Credits.

## Field Experience

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### 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.

## History

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### History 117. The Contemporary World.

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

3 Credits.

### History 240. Ancient Israel.

Study of the ancient Israelites from the time of their formation as a social group through the destruction of the temple in Jerusalem by the Romans. Emphasis on government, religion, intercultural relationships between Israel and its neighbors, and the context of the Old Testament.

3 Credits.

### History 276. Barbarians and the Fall of Rome.

Examination of the era that led to the misleading phrase: "the fall of Rome." This course investigates Rome's interaction with various barbarian groups (e.g. Visigoths, Ostrogoths, Vandals, Burgundians, Langobards, Franks, and Huns) and its evolving strategy in dealing with them. Considers the replacement of the western Roman empire by various successor states, the barbarian kingdoms, which eventually coalesced into early medieval Europe.

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

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In addition to the listed courses, all areas offer independent studies numbered 299 or 399 with variable credit. The purpose of an independent study is to allow well-qualified students to study beyond the regularly offered courses. Students who undertake independent studies must be able to work independently between meetings with the instructor and have completed a minimum of 33 credits with a GPA of at least 2.70. Planning ahead is necessary: independent study proposals, syllabi, and required registration paperwork must be completed well before the term in which the study is to occur. Full details can be found in the undergraduate student handbook.

## Interdisciplinary Studies

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

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

### Interdisciplinary Studies 496. Senior Seminar II.

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

## Mathematics

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

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

Prerequisite: Math 101 or appropriate score on placement test.

3 Credits.

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

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

Prerequisite: Mathematics 101 or appropriate score on placement test.

3 Credits.

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

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

Prerequisite or Co-requisite: Mathematics 115.

1.5 Credits.

### Mathematics 130. Introduction to Statistics. (QR)

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

Prerequisite: Mathematics 101 or appropriate score on placement test.

4 Credits.

### Mathematics 311. Ordinary Differential Equations.

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

Prerequisite: Mathematics 151.

3 Credits.

### Mathematics 496. Senior Seminar II.

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

Prerequisite: A passing grade on the senior essay.

1 Credit.

## Music

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### Music 100. College Chorale.

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

1 Credit.

## Nutrition

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### Nutrition 110. Principles of Nutrition.

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

3 Credits.

## Philosophy

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### Philosophy 101. Critical Thinking.

Development of students' reasoning skills through analysis and evaluation of arguments. 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. (Worldview)

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

3 Credits.

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

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

Prerequisite: Philosophy 102.

3 Credits.

### Philosophy/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 340. Bioethics. (Moral)**

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

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

3 Credits.

## **Physical Education**

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### **Physical Education 170. Frisbee Sports.**

This 1 credit PE course is both an introduction to the fundamental skills and strategies of organized Frisbee play and a course designed to further develop individual skills for the beginning player. Frisbee requires development of the following individual skills: throwing/passing/catching, running/cutting and marking. In addition, students will gain an understanding of elementary team and personal strategies in offense and defense.

1 Credits.

## **Physics**

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

Continuation of Physics 210. Calculus-based introduction to classical electricity, capacitance, current, resistance, and circuits. Also magnetism, inductance, electromagnetic oscillations, optics, and introduction to modern physics.

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

3 Credits.

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

1 Credit.

## **Political Science**

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

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

3 Credits.

# Psychology

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## Psychology 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.

Study of human development, focusing on the most significant changes that occur across the lifespan. Topics include theories of physical-motor, cognitive, language, creative, social, emotional, moral, and spiritual development.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

## Psychology 220. Cognitive Psychology.

Survey of contemporary theories and research concerned with the structure and processes of the mind. The course will view cognitive psychology as the coordinated operation of mental processes within a multi-component memory system. Topics include attention, memory, the role of emotion, problem solving, and concept formation.

Prerequisite: Psychology 101 or department chair permission.

3 Credits.

## Psychology 320. Introduction to Experiments in Psychology.

Introduces students to experimental design in psychology with careful attention to terminology, methodology, strengths, and limitations of research. Additionally, students are exposed to classic experiments in the areas of social, abnormal, cognitive, developmental, and neuropsychology. Serves as precursor to the Psychology Capstone and should be completed spring term of junior year. Pass/Fail.

1 Credit.

## 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.

Prerequisite: Students must be accepted psychology majors, psychology interdisciplinary majors, or psychology minors at the junior level of study. Applied.

3 Credits.

### Psychology 492. Senior Seminar.

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

## Religion

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### 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, and marriage. Presupposes a moderate familiarity with New Church teachings.  
3 Credits.

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

New Church teachings on the life after death studied in their own context and the context of the near-death experience and the history of eschatology. Text: *Heaven and Hell*.  
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. (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 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 278. Exploring Romantic Relationships. (Applied)

Contemporary marriage education and relationship enhancement programs are studied in the light of New Church teachings. Focuses on the work of John Van Epp (preparation for marriage), John Gottman (making marriage work) and Tony Robbins (six human needs), but also touches on other marriage education programs.

3 Credits.

### Religion 285. The Modern Christian Church.

Challenged in and since the eighteenth century by philosophy, science, and changes in culture, the Christian Church had to respond to increasing pressure to adjust or become obsolete. This course traces the development of Liberal and Conservative schools of thought that led to different solutions to these challenges, explores the influence of Emanuel Swedenborg's theological writings on Christian thought, and focuses primarily on developments in Christianity in American life, culture, and politics.

3 Credits.

### Religion 295. Islam. (Comparative)

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

3 Credits.

### Religion 311. Continuation of Studies in Arcana Coelestia. (W, Doctrinal)

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

3 Credits.

## Sociology

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### Sociology 110. Introductory Sociology.

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

3 Credits.

## Special Education

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

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

Prerequisite: Special Ed 111.

3 Credits.

### Special Education 313. Research-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.

## Theater

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

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

Credit variable.

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

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

1-3 Credits.

## Writing

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### Writing 101. Expository Writing. (W)

Development of informative, critical, 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 five formal essays total, including substantial revision.

Individual conferences with instructor to discuss student's writing. Required of first year students. Non-native speakers of English may take Writing 101 sophomore year.

3 Credits.

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

Analytic study of literary genres—drama, short fiction, and poetry—with emphases on writing and research.

Assumes basic skills in writing and information literacy covered in Writing 101. Three papers, including substantial revision. One longer paper and its research process require locating, evaluating, and incorporating multiple secondary sources. Individual conferences with instructor to discuss student's writing. Required of sophomores.

Prerequisite: Writing 101.

3 Credits.

# Building Arts Workshops

**SUMMER 2018**

## **Glass**

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### Color Exploration with Glass Enamel 6/25-5/29

#### J. Kenneth Leap

Imagine 5 days in the studio lab experimenting with painting color on glass. Finally understand the difference between frits, enamels, and stains. Practice historic techniques and develop contemporary applications. Direct painting, stenciling, marbling, airbrushing, screen printing, decal, and photo transfer will be introduced. Kiln prep and firing schedules will be covered in detail.

Learn a vocabulary of processes that will equip you to embark on a lifetime of studio practice. These techniques can be applied to stained glass, fused glass, or blown forms. This will be a lively and fast-paced class – learn to paint with freedom, confidence, and spontaneity as we unlock the potential of color on glass.

J. Kenneth Leap began his career in 1987 when he opened his studio, The Painted Window, a year after earning a BFA from the Rhode Island School of Design. He is primarily known for his public art installations throughout New Jersey. He is an ambassador artist for Wheaton Arts in Millville, NJ where he has maintained his primary studio since 1994. He is also an artist in residence at Glencairn Museum in Bryn Athyn, PA and teaches stained glass at Bryn Athyn College.

### Stained Glass Conversation 7/9-7/13

#### Stephen Hartley

This hands-on course will introduce proper evaluation and documentation techniques for stained glass conservation. Students will practice conservation techniques such as cleaning, copper foil repairs, and chemical edge bonding. Co-instructor J. Kenneth Leap will cover restoration painting techniques including glass selection, cover plates, and matching historic pigments.

Stephen Hartley is the Head of the Building Arts program at Bryn Athyn College. He has participated in the restoration of more than 40 sites, winning awards from the Historic Savannah Foundation for his work. Besides teaching at Bryn Athyn, Hartley has also taught at SCAD and Armstrong State University and lead the Historic Preservation and Restoration program at Savannah Technical College. He is internationally recognized for his work in the field and has served on numerous national and international boards. He holds an MFA in historic preservation from the Savannah College of Art and Design and is a PhD candidate at the University of York.

## Metals

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### Painting with an Iron Palette 6/18-6/22

#### Warren Holzman

Students will learn the fundamentals related to chasing and repousse in steel. Repousse is an exciting way to create relief images in steel that exist somewhere between a drawing and a sculpture. The approach will focus on dynamic image development, not unlike composition related to painting. Projects will focus on larger scale pieces created over a wood stump. The course will cover design development, tool making, and finishing. Warren Holzman is a Philadelphia-based artist working in forged and fabricated metals, and owns Holzman Iron Studio LTD, a respected professional practice executing craftwork in metals for residential and commercial clients around the globe. He has received several public art commissions and his work is included in private collections in Philadelphia and nationally, most notably the new metalwork at the Bryn Athyn Cathedral and Glencairn Museum. He is the blacksmithing instructor at Bryn Athyn College, and has taught at Peters Valley School of Crafts, Penland School of Crafts, New England School of Metalwork, University of the Arts, and Moore College of Art and Design. He has been the visiting artist and lecturer at Kent State University, SUNY New Paltz, and The California Blacksmithing Association.

### Forged Furniture and Furnishings 6/25-6/29

In this intensive workshop students will build a small piece of forged furniture such as a stool, a nightstand, or even a beautiful vessel. We will hammer rods, bars, and sheets into various shapes, create beautiful joining mechanisms, and learn a great deal about design. I will provide solid ideas and direction to get us started, and students are also encouraged to experiment with various solutions. Basic hot forging will be the foundation, which includes joinery, bending, tapering, and fire welding.

John Rais has a BFA in sculpture from Massachusetts College of Art and an MFA from Cranbrook Academy of Art. He has operated his studio business since 1998, where he designs and creates one-of-a-kind furniture, sculpture, and architectural metal art. He has had solo and group shows at many places including Purchase College, The National Metals Museum, and Massimo Bizzocchi NYC. His work is regularly featured in numerous publications including a cover article in Metalsmith Magazine, as well as many books. In 2012, John installed a large series of decorative panels for the main staircase at Yale University Art Galleries for the museum's permanent collection. Most recently, John Rais Studios was hired to design nearly all of the metalwork for a massive renovation project for a famous Addison Mizner Home in Palm Beach, Florida.

### Forged by Design 7/16-7/20

#### Mike Rossi

This class will focus on using the techniques of blacksmithing to make useful objects for the home. Starting with fundamental hand-forging exercises, we'll quickly move into self-directed assignments. Each student will complete 2-3 small projects, and gain an understanding of the versatility and characteristics of forging steel. Inspired by the amazing metalwork of the Bryn Athyn Historic District, we'll also discuss the relationship of architecture to design in metal. Plan on working hard, having fun, and leaving with some new work!

Mike Rossi is the principal of Rossi Metal Design based in Philadelphia, specializing in unique architectural works and sculpture. Born in Pontiac, Michigan, he has a BFA in blacksmithing from Northern Michigan University, and an MFA in metalsmithing from Cranbrook Academy of Art. He has exhibited nationally and internationally, most recently at the Torpedo Factory in Alexandria, VA as well as the National Ornamental Metals Museum in Memphis, TN and the Houston Center for Contemporary Craft. He has taught at Ox-Bow School of Art, Penland School of Craft, Haystack Mountain School of Craft, Bryn Athyn College, and Kalamazoo College. He was recently awarded the Windgate Artist Residency at Purchase College, NY.

## Stone

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### Relief Carving 6/25-6/29

#### Jens Langlotz

This course will introduce students to the basics of relief carving. Students will be exposed to the process of working with limestone including lettering, edge design, and finishing. During the course, students will design their own pieces inspired by examples found within Bryn Athyn Cathedral or created from their own personal concepts.

As a master sculptor and carver with more than 20 years of experience, Jens Langlotz has worked and mastered the major design building styles—from Romanesque, Gothic, and Renaissance, to American Colonial and Victorian stone carving. Jens graduated from Fachschule Fur Steintechnik in Munich. He apprenticed under master sculptor Hans Kupe, one of Germany's leading stone restorers, and under Al Walters, master craftsman in stone, metal, and wood. He serves as the head stone mason for both Bryn Athyn Cathedral and Glencairn Museum, and has also done work on many other structures including the Philadelphia Museum of Art, Philadelphia City Hall, Reading Terminal, and buildings at Villanova and Princeton Universities.

### Recreating History in Stone 7/16-7/20

#### Simeon Warren

The internationally renowned Stone People Project, which has set out to recreate the destroyed Queen Eleanor Crosses in the U.K., returns for its second workshop at Bryn Athyn. In 1290 Queen Eleanor, beloved wife of King Edward I, died near Lincoln Cathedral. The Kings Masons were tasked to design and build 12 memorial crosses sited along the funeral procession's path between Lincoln Cathedral and Westminster Abbey. This workshop is based on the recreation of a stone element for a newly designed Eleanor Cross for Lincoln City. The challenge: to follow in the footsteps of the medieval master masons and meet the challenge they set in stone.

Simeon Warren is the founding dean & dean emeritus of the American College of the Building Arts, Charleston, SC. As an architectural stone carver he learned his trade at Weymouth College U.K., gaining an advanced craft certificate in masonry from the City and Guilds of London Institute. His first professional position was as an apprentice at Lincoln Cathedral, later becoming Deputy Yard Foreman at Wells Cathedral as well as producing stone for Buckingham Palace & The Houses of Parliament. At Glasgow School of Art he received a first class BFA degree in environmental art, creating conceptual work in context. He is the creative director of Stone People Project, which brings together his architectural stone and environmental art practice.

## Mosaics

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### Smalti Mosaic

#### Carol Stirton-Broad

In this workshop students will initially produce a small sampler using traditional techniques. Next, students will design a larger piece, using these materials in their own style. Finally, students will learn design transfer and create a final work of art using the direct method. Students will be encouraged to experiment with a variety of tools including hammers, hardies, and glass nippers.

Carol Stirton-Broad holds a BFA from Temple University's Tyler School of Art, and has also studied at Glasgow School of Art (Scotland), Orsoni (Venice, Italy), Scuola Arte del Mosico (Ravenna, Italy) and the Chicago Mosaic School. Stirton-Broad has taught ceramic and mosaic workshops at the Philadelphia Museum of Art, the Institute of Contemporary Art (Philadelphia), Fleisher Art Memorial (Philadelphia), Main Line Art Center (Haverford, PA), and the Abington Art Center (Jenkintown, PA). Stirton-Broad's work has been exhibited in many locations, including the Magic Garden, The Clay Studio, Ariana Gallery (Royal Oak, MI), the Bath House Cultural Center (Dallas), Abington Art Center, Fleisher Art Memorial, Main Line Art Center, Philadelphia Art Alliance, and the Tyler School of Art.

# Fall Term 2018-19 Graduate Courses

## Theological School

### Business 864: Pastoral Business.

The focus of this course will be an exploration of management and administrative activities, societal and legal obligations, budgeting and financial affairs, volunteer and employment issues, outreach and marketing functions, mission accountability, responsibilities to stakeholders, fund and friend raising, plus community relations from the perspective of a religious organization. In addition, the course will explore operational and long term planning along with the implementation of strategic initiatives to fulfill the organization's mission while improving efficiency and effectiveness.

Seminar

W.B. Junge

### Experiential Learning:

Theologians spend an average of three hours a week for 30 weeks a year, in their Service Learning Assignments. Usually there is a change in assignment every ten weeks. The assignments involve interacting with people as aides to ordained and non-ordained leaders in this community. All of the assignments give the theologians direct experience relating to people in settings that are similar to what they will encounter, once they themselves are ordained ministers. Students are assessed by onsite supervisors and their classroom professor on nine connecting skills. They are rated as demonstrating an Excellent, Good, Sub-par or Destructive level for each of the nine skills. Students meet as a group once a week for about an hour to receive coaching from their professor, who possesses advanced training and skills in this area. Service Learning is usually part of the curriculum for first and second year theological students, for a total of 6 terms.

Workshop

K. K. Rogers

### Homiletics 921: Sermons from Old Testament Texts.

Theory and practice of sermon writing. Sermons will be from various styles in the Old Testament: from a made-up historical story, from an actual historical story, from a psalm.

Workshop.

G.H. Odhner

### Homiletics 922: Children's Talks.

Philosophy, preparation and presentation of children's talks.

Workshop.

K. Hy. Asplundh

### Theology 601. Heavenly Doctrines as Systematic Theology.

An introductory course required of all Theological School students. Its purpose is to provide for the students the framework, the context, and the direction of the Theological School program. It introduces the students to the major doctrines presented in the Heavenly Doctrines along with their core teachings, to the relationship among the major doctrines, to fundamental terms in the Heavenly Doctrines, to important ideas about and arising from the Heavenly Doctrines, and to important perspectives on theology in general and on the Heavenly Doctrines in particular.

Seminar.

P.A. Rogers

### Theology 614: Studies on the Glorification: I.

The Lord's childhood. Acquisition of knowledge. Early temptations. The first rational. Divine perception. The Divine Rational. Inmost temptations. Based on the reading of Arcana Coelestia, chap. 12-22.

Seminar.

S. D. Cole

### Theology 642. The Human Mind and its Regeneration.

The human mind as a vessel created by the Lord to receive and respond to Him, and ultimately to fulfill His end in creation: a state of conjunction between human beings and Himself, i.e. heaven. Structure and faculties of the mind, influx of life into the mind. The greater part of the course focuses on the Lord's work of regenerating human beings for heaven and the role of human beings in cooperating with it. Stages and states of regeneration, from birth to the final formation of a person's ruling love ("Book of life").

Seminar.

G.H. Odhner

### Theology 710: Pastoral Orientation.

Introductory study of the doctrine of the priesthood, with emphasis on the origins, the uses of, and the workings of ministry. Sections on love of salvation of souls, conscience and effect of evil on the priesthood. Workshop.

A.M.T. Dibb

# Winter Term 2018-19 Graduate Courses

## Theological School

### Communication 716: Topics in Communication I. (5 classes)

Communication is one of the most important activities we engage in as humans. It is how we connect with the LORD, each other, and our world. As a pastor, learning to communicate effectively is essential. This course will explore communication topics and their practical application. Topics will include the role of persuasion in communication, listening skills, and available communication tools for pastors. The course will also address leadership and how to lead through change. A significant portion of the course will deal with structuring an effective oral message.

Seminar.

M.H. Williams

### Counselling 845: Introduction to Pastoral Counseling II.

Focus of class will be furthering the development of emotional intelligence, and strengthening the listening and attending skills developed in PT 844. There will be a focus on applying skills in situational contexts and life transitions. Examples include death and loss, divorce, grief, illness, parenting, addiction and mental illness. This will be practiced in small groups and role plays looking for applications to real life pastoral situations.

Seminar.

K.H. Roth

### Experiential Learning:

Theologs spend an average of three hours a week for 30 weeks a year, in their Service Learning Assignments. Usually there is a change in assignment every ten weeks. The assignments involve interacting with people as aides to ordained and non-ordained leaders in this community. All of the assignments give the theologs direct experience relating to people in settings that are similar to what they will encounter, once they themselves are ordained ministers. Students are assessed by onsite supervisors and their classroom professor on nine connecting skills. They are rated as demonstrating an Excellent, Good, Sub-par or Destructive level for each of the nine skills. Students meet as a group once a week for about an hour to receive coaching from their professor, who possesses advanced training and skills in this area. Service Learning is usually part of the curriculum for first and second year theological students, for a total of 6 terms.

Workshop.

K. K. Rogers

### Homiletics 911: Principles of Exposition.

The primary purpose of this course is to learn the principles of expounding the Sacred Scripture to see its spiritual sense, as these principles are taught in the theological Writings of Emanuel Swedenborg. Students will learn to apply these principles. They will also be introduced to the theory and practice of sermon writing.

Seminar.

G.H. Odhner

### Theology 620. The Revelation Given to the New Church.

The nature of the theological Writings given to the New Church through Emanuel Swedenborg. Its relationship to former revelations. Approaches to forming a doctrine for the church in response to the new revelation. The nature and role of that doctrine.

Seminar.

G.H. Odhner

### Theology 668: The Apocalypse and Last Judgment.

Using the book of Revelation and the Apocalypse Revealed as guides, this course explores the process of the Last Judgment in 1757. Particular emphasis is placed on the Biblical correspondences that describe the states of the church and individuals in the Christian era, and how these states led to the downfall of the Christian Church and the establishment of the New Church.

Seminar.

A.M.T. Dibb

### Theology 841: Church Government I.

An analysis of the doctrine and its application in pastoral and overall church governance. How to lead a church congregation. A consideration of issues such as government by influx, counsel and assembly, the history of governance in the New Church, the relationship of the priesthood and laity, and the relationship of the General Church and the Academy.

Two-term Workshop.

B.W. Keith

### Workshop 720: Speech I: Public Speaking and Interpersonal Communication.

Introduction to communications theory: Self as communicator, communication process, perception in communication, and effective communication—qualities and barriers. Emphasis on applications to professional work of the priest.

Workshop.

M.H. Williams

### Workshop 724: Speech II: Concepts in Interpersonal Communication.

Introduction to oral interpretation of literature. Advanced interpersonal communication theory and skills development.

Workshop.

M.H. Williams

# Spring Term 2018-19 Graduate Courses

## Theological School

### Church History 687: New Church History.

Chronological and topical study of the rise and early development of the New Church in Europe and North America. The rise of the Academy movement and the development of the General Church of the New Jerusalem. Consideration of selected issues in modern church history. Emphasis on the history of doctrine. Seminar.

S. D. Cole

### Experiential Learning:

Theologians spend an average of three hours a week for 30 weeks a year, in their Service Learning Assignments. Usually there is a change in assignment every ten weeks. The assignments involve interacting with people as aides to ordained and non-ordained leaders in this community. All of the assignments give the theologians direct experience relating to people in settings that are similar to what they will encounter, once they themselves are ordained ministers. Students are assessed by onsite supervisors and their classroom professor on nine connecting skills. They are rated as demonstrating an Excellent, Good, Sub-par or Destructive level for each of the nine skills. Students meet as a group once a week for about an hour to receive coaching from their professor, who possesses advanced training and skills in this area. Service Learning is usually part of the curriculum for first and second year theological students, for a total of 6 terms.

Workshop.

K. K. Rogers

### Homiletics 923: Sermons from the Prophets and New Testament Texts.

Theory and practice of sermon writing. Sermons will be from the Prophetic style of the Old Testament, and from various styles in the New Testament.

Workshop.

G.H. Odhner

### Pastoral Theology 851: Liturgics: Doctrinal Foundations.

Introductory course exploring the doctrinal underpinnings of ritual in the General Church of the New Jerusalem (GCNJ). We explore the development of liturgical practice in the New Church from its earliest days to the present. Topics include “external and internal worship,” the role of ritual in worship, houses of worship and their symbolism.

Workshop.

A. M. T. Dibb

### Pastoral Theology 852; Liturgics: Orders of Services for Worship.

A practical course on constructing an order of service, examining the place and use of music, singing, the letter of the Word, prayer, lessons, the children's talk, sermon and benediction. There will be a major emphasis on developing a familiarity with the liturgy and practice of leading worship according to the standard General Offices, as well as contemporary, informal and home settings. The aim of this course is to prepare students to be able to comfortably lead a service in a variety of settings before their Candidate experience requires them to do so.

Workshop.

A. M. T. Dibb

### Theology 616: Studies on the Glorification: II.

The conjunction of good and truth in the Lord's Divine Rational. Conception and birth of the Divine Natural. Appearances of truth. The glorification of the Natural. Mediate good. The conjunction of natural truth with spiritual good, and of the Divine good natural with the good of truth. Based on the reading of Arcana Coelestia, chap. 23-33.

Seminar.

S.D. Cole

### Theology 626: Themes in the Old Testament.

The character of the Old Testament, seen in the light of the theological Writings of Emanuel Swedenborg (the "Heavenly Doctrine"). The nature of its inspiration and its place in the history of revelation. A look at the major themes in the literal sense that are the basis for its spiritual meaning.

Seminar.

G.H. Odhner

### Theology 842: Church Government II.

An analysis of the doctrine and its application in pastoral and overall church governance. How to lead a church congregation. A consideration of issues such as government by influx, counsel and assembly, the history of governance in the New Church, the relationship of the priesthood and laity, and the relationship of the General Church and the Academy.

Two-term Workshop.

B.W. Keith

### Theology 695: Dissertation Writing.

The goal of the dissertation, required of all degree students, is to demonstrate the student's ability to present and explain doctrine. The dissertation begins with an approval of the topic selected by the student at the close of the second term of his penultimate year. This is followed by a one term workshop in the spring, offering instruction and guidance on the process of developing the topic. In the workshop students independently explore their topic, and convene to share and discuss findings with the instructor and class. The student is given a personal advisor for the dissertation, who works with him to its completion by February of his final year.

Workshop and Independent Study.

A. M. T. Dibb