

BRYN ATHYN COLLEGE

2017-18

Course Bulletin

# Table of Contents

Academic Calendar .....	5
Academic Reminders and Requirements .....	5
Fall Term 2017-18 Undergraduate Course List .....	8
Fall Term 2017-18 Undergraduate Courses.....	11
Biology .....	11
Business.....	11
Chemistry.....	13
Communication .....	13
Computer Science .....	13
Dance .....	14
Economics.....	14
Education.....	14
English .....	16
Environmental Science.....	16
Experiential Education.....	17
Fine Arts .....	17
Geography.....	18
German .....	18
History.....	18
Human Society.....	19
Independent Studies.....	19
Mathematics .....	19
Music .....	20
Philosophy.....	20
Physical Education.....	21
Political Science .....	21
Psychology.....	22
Religion .....	23
Spanish.....	24
Theater .....	24
Writing.....	24
Winter Term 2017-18 Undergraduate Course List.....	26

Winter Term 2017-18 Undergraduate Courses.....	29
Anthropology.....	29
Biology.....	29
Business.....	30
Chemistry.....	31
Communication.....	31
Computer Science.....	31
Dance.....	31
Economics.....	32
Education.....	32
English.....	33
Experiential Education.....	34
Fine Arts.....	34
German.....	35
History.....	35
Human Society.....	35
Independent Studies.....	35
Latin.....	35
Mathematics.....	36
Music.....	37
Philosophy.....	37
Physical Education.....	37
Physics.....	38
Political Science.....	38
Psychology.....	38
Religion.....	39
Spanish.....	39
Theater.....	40
Writing.....	41
Spring Term 2017-18 Undergraduate Course List.....	42
Spring Term 2017-18 Undergraduate Courses.....	45
Anthropology.....	45
Biology.....	45

Business.....	46
Chemistry.....	47
Communication .....	47
Computer Science .....	48
Dance .....	48
Economics.....	49
Education.....	49
English .....	50
Experiential Education.....	51
Fine Arts .....	51
History.....	51
Independent Studies.....	52
Interdisciplinary Studies .....	52
Latin.....	52
Mathematics .....	52
Music .....	53
Nutrition .....	53
Philosophy.....	54
Physical Education.....	54
Physics.....	54
Political Science .....	54
Psychology.....	55
Religion .....	55
Sociology.....	57
Writing.....	57
Summer Building Arts Workshops.....	58
Fall Term 2017-18 Graduate Courses .....	57
Winter Term 2017-18 Graduate Courses.....	63
Spring Term 2017-18 Graduate Courses .....	66

**BRYN ATHYN COLLEGE CALENDAR FOR ACADEMIC YEAR 2017-18:  
ONE HUNDRED and FORTY-FIRST ACADEMIC YEAR**

**2017**

June	12-16	Mon-Fri	Building Arts Intensive Workshop
	19-23	Mon-Fri	Building Arts Intensive Workshop
July	10-14	Mon-Fri	Building Arts Intensive Workshop
	17-21	Mon-Fri	Building Arts Intensive Workshop
August	14	Mon	Faculty retreat
	15	Tues	Administration and Faculty meetings
	15-18	Tues-Fri	RA training
	19	Sat	11:00 am – 4:00 pm: New Students (US and International) arrive on campus
	19-22	Sat-Tues	Orientation for new students
	20	Sun	12:00 pm - 5:00 pm: All returning students arrive on campus
	21	Mon	8:00 am - 5:00 pm: Open advising period for all students
	22	Tues	7:00 pm: President's Welcome (dessert) for all students (Glencairn)
	23	Wed	8:00 am: Fall Term classes begin
September	4	Mon	Labor Day holiday
October	12	Thurs	All college in-service day—Majors and Career Day
	20	Fri	Charter Day
	23-1	Mon-Wed	Registration for Winter Term
November	3	Fri	Fall Term classes end
	6	Mon	Reading day
	7	Tue	Exams begin
	10	Fri	Fall Term ends after exams
	23	Thu	Thanksgiving holiday
	26	Sun	Resident students return
	27	Mon	Winter Term classes begin
December	21	Thurs	Christmas vacation begins

**2018**

January	2	Tues	Resident students return
	3	Wed	Classes resume
	15	Mon	Martin Luther King, Jr. holiday
	22-31	Mon-Wed	Registration for Spring Term
February	16	Fri	Winter Term classes end
	19	Mon	President's Day – Exams begin
	22	Thurs	Winter Term ends after exams
March	6	Tues	Resident students return
	7	Wed	Spring Term classes begin
	21-23	Wed-Fri	Phase I Registration
	30	Fri	Good Friday holiday
April	2-6	Mon-Fri	Phase II Registration
	23-27	Mon-Fri	Phase III Registration
May	16	Wed	Spring Term classes end
	17	Thurs	Reading day
	18	Fri	Exams begin
	23	Wed	Last day of exams
	25	Fri	6:30 pm: Graduation Dinner (Brickman Center)
	26	Sat	10:00 am: Graduation (Asplundh Field House)
	31	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 2017-18 Undergraduate Course List

As of 7/1/17. (Independent Study and Internship courses not listed).

BLOCK	COURSE	TITLE	CREDITS	INSTRUCTOR
12	Ant/Hist211	Artifacts, Archaeology, and Museums	3	W.E. Closterman
2	Bio122_0	Introduction to Biology: Genetics and Evolution	3	A.F. Bryntesson
6	Bio122_1	Introduction to Biology: Genetics and Evolution	3	A.F. Bryntesson
22	Bio122L_0	Introduction to Biology: Genetics and Evolution Lab	1	G. McMackin
24	Bio122L_1	Introduction to Biology: Genetics and Evolution Lab	1	G. McMackin
24	Bio122L_2	Introduction to Biology: Genetics and Evolution Lab	1	S.R. Evans
6	Bio210	Human Anatomy and Physiology I	3	E. Higgins
21	Bio210L	Human Anatomy and Physiology I Lab	1	E. Higgins
5	Bio230	Genetics	3	A.F. Bryntesson
2	Bio490	Biology Seminar I	1	E. Higgins
3	Bus141_0	Accounting I	3	E.S. King
16	Bus141_1	Accounting I	3	J. Tepper
7	Bus254	Principles of Marketing	3	W.B. Jungé
12	Bus267	Introduction to Sports Management	3	D. Shute
16	Bus305	Business Seminar	1.5	E.S. King
8	Bus320	Financial Management	3	C. Waltrich
4	Bus493	Senior Literature Review	2	E.S. King
5	Bus/ID494	Senior Seminar I	1	D.A. Synnestvedt
3	Chem101	Introduction to Chemistry	3	E. Higgins
4	Chem210	Organic Chemistry I	3	E. Higgins
21	Chem210L_0	Organic Chemistry I Lab	1	S.R. Evans
23	Chem210L_1	Organic Chemistry I Lab	1	G. McMackin
6	Comm105	Public Speaking	3	S.V. Bernhardt
5	CSci105	Introduction to Computer Systems	3	N. Simonetti
14	CS/Math235	Discrete Structures	3	N. Simonetti
3	Dan133/233	Tap Dance	1.5	J.L. Bostock
16	Dan160/260/360	Dance Ensemble	1.5	J.L. Bostock
14	Dan240	Creative Movement and the Young Child	1.5	J.L. Bostock
15	Econ131_0	Macroeconomics	3	W.B. Jungé
14	Econ131_1	Macroeconomics	3	W.B. Jungé
7	Ed217	Language, Literacy, and Numeracy	3	N.G. Phillips
3	Ed271	Introduction to Early Childhood Education	3	N.G. Phillips
5	Ed322	Social Studies and the Young Child	3	N.G. Phillips
7	Ed324	Science and the Young Child	3	A.N. Rose

12	Eng221	English Literature Survey II	3	K. King
11	Eng320	The English Language	3	T.P. Glenn
<b>Special</b>	Eng490	English Major Writing Project	3	K. King
<b>Special</b>	Eng495	Senior Seminar: Career Preparation	1	K. King
6	EnSci105	Introduction to Sustainability	3	E.R. Potapov
21	EnSci105L_0	Introduction to Sustainability Lab	1	E.R. Potapov
23	EnSci105L_1	Introduction to Sustainability Lab	1	E.R. Potapov
3	FA102	Renaissance and Baroque Art	3	M. Gyllenhaal
15	FA140	Drawing and Painting	3	M. Gyllenhaal
15	FA141	Building Arts Foundation	3	J.K. Leap
6	FA213/313	Topics in Twentieth-Century Architecture: Bryn Athyn's National Historical Landmarks	3	M. Gyllenhaal
15	FA240	Intermediate Painting	3	M. Gyllenhaal
21	FE1	Field Experience I: Observation	3	A.N. Rose
21	FESpEd	Field Experience in Special Education	3	S. Wong
12	FYS101	First Year Seminar	1	L.C. Nash
5	Geog110	World Regional Geography	3	A. Yardumian
4	Germ101	Introductory German I	3	S.B. Lawing
3	Hist248	The Medieval World	3	S.B. Lawing
14	Hist305	Asia	3	W.E. Closterman
7	HSoc401	Capstone Seminar I	3	A. Yardumian
14	Math095	Preparation for Quantitative Reasoning	1	M.T. Genzlinger
2	Math101_0	Introduction to Quantitative Reasoning	3	Staff
4	Math101_2	Introduction to Quantitative Reasoning	3	N. Simonetti
16	Math140	Elements of Calculus	3	N. Simonetti
3	Math150	Calculus I	3	C.B. Bongers
14	Math150L	Calculus I Lab	1	C.B. Bongers
2	Math330	Introduction to Probability Theory	3	C.B. Bongers
<b>Special</b>	Math493	Senior Literature Review	2	N. Simonetti
<b>Special</b>	Math499	Senior Research	2	N. Simonetti
<b>Special</b>	Mus100	College Chorale	1	G. Bier
5	Mus210	Music of Christianity	3	G. Bier
11	PE112	Team Sports for Fun	1	H. Bryntesson
2	PE180	Foundations of Physical Education	1	S. Jones
4	Phil102_0	Introduction to Philosophy	3	D.A. Synnestvedt
14	Phil102_1	Introduction to Philosophy	3	M.E. Latta
7	Phil111	Introduction to Moral Philosophy	3	M.E. Latta
15	Phil/PS220	Political Thought	3	D.A. Synnestvedt

2	PSci211	Comparative Government	3	D.G. Rose
5	Psyc101	Introductory Psychology	3	K.K. Rogers
14	Psyc201	Abnormal Psychology	3	E. Goldblatt Hyatt
12	Psyc203	Personality Theory	3	E. Goldblatt Hyatt
4	Psyc205	Social Psychology	3	K.K. Rogers
15	Psyc341	Human Development: Adult Altruism	3	L.C. Nash
16	Psyc490	Research Methods in Psychology	3	F. Cavallo
11	Rel101_0	Introduction to New Church Doctrines	3	R.J. Silverman
14	Rel101_1	Introduction to New Church Doctrines	3	R.J. Silverman
4	Rel101_2	Introduction to New Church Doctrines	3	C. Glenn
5	Rel101_3	Introduction to New Church Doctrines	3	G. Schnarr
6	Rel101_4	Introduction to New Church Doctrines	3	G. Schnarr
2	Rel110	Introduction to Systematic Theology	3	S.I. Frazier
5	Rel220	The Torah	3	S.I. Frazier
6	Rel283	Pre-Christian Church History	3	S.D. Cole
7	Rel320	Judgment, Providence, and Human Society	3	S.I. Frazier
3	Rel380	History of New Church Doctrine	3	S.D. Cole
7	Soc110	Introduction to Sociology	3	S. Anderson
14	Span101	Introductory Spanish I	3	M. Nunez
15	SpEd111	Introduction to Special Education	3	S. Wong
1	SpEd331	Classroom Management and Behavioral Support	3	K.M. Ballard
3	SpEd334	Assistive Technology in the Classroom	1	Staff
15	Thea110	Introduction to Performance Arts	3	J.L. Bostock
11	Thea120	Set Design and Production	3	N. Haus-Roth
3	Writ100	Academic Writing	3	A. Nash
2	Writ101_0	Expository Writing	3	D. Harrison
3	Writ101_1	Expository Writing	3	D. Harrison
4	Writ101_2	Expository Writing	3	C. Hoffman
3	Writ101_3	Expository Writing	3	C. Hoffman
6	Writ202_0	Writing About Literature	3	R.S. Cooper
5	Writ202_1	Writing About Literature	3	R.S. 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 2017-18 Undergraduate Courses

## Anthropology

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

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

3 Credits.

## Biology

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### 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.

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.

1 Credit.

### Biology 230. Genetics.

Study of the process of heredity at a more advanced level than Biology 122. A problem-solving, seminar-oriented course integrating principles of evolution, classical Mendelian genetics, non-Mendelian inheritance patterns, chromosome mapping and mutations, sex determination, extra nuclear inheritance, and the following subcategories of genetics: behavioral, population, evolutionary and conservation. Prerequisites: Biology 122 and 123.

3 Credits.

### 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 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 267. Introduction to Sports Management.

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

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/ID 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 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.

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.

### Computer Science/Mathematics 235. Discrete Structures.

Mathematical foundations for the analysis of computer systems. Recursive functions, sets, graph theory, and combinatorics. Prerequisite: Computer Science 180 or permission of instructor.  
3 Credits.

## 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 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.

## Economics

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### Economics 131. Macroeconomics. (QR)

Study of the fundamentals of economic analysis with emphasis upon national output, employment, and price levels. Exploration of the monetary and financial system together with problems of economic stability. Special attention given to the role of government fiscal and monetary policy in managing the economy. Consideration of current issues such as economic growth, federal budget deficits, and the role of the Federal Reserve Bank. Course includes student-led seminars. 3 Credits.

## Education

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

This course prepares students for their role in the early childhood classroom. Many opportunities for application of best practices. Includes theories of language development. Special attention given to emergent language and language-rich environments. Includes 1 credit hour of ELL instruction. 3 Credits.

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

Develop basic knowledge, skills and dispositions in preparing 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.

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. Open only to 3rd year students. Prerequisites: Education 128 or 271.

3 Credits.

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

Students explore a variety of science experiences suitable for young children and compare theories of cognitive development as they relate to science. Emphasis on the nature of science and how young children perceive and conceptualize the world around them.

3 Credits.

### Field Experience I. Observation.

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

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.

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

An overview of key concepts, theories and practices of special education. Course begins with a role-playing game in which students learn about the milestone legislation, IDEA. Attention is given to the social and historical underpinnings of today's special education programming, as well as to the various types of learning needs in any given classroom. Students will learn to view "disabilities" from differing perspectives and gain appreciation for the variety of needs expressed in the human condition. 3 Credits.

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

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

3 Credits.

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

This course explores a variety of technologies used to assist persons with a wide range of exceptionalities. Universal Design for Learning is at the core of this course with a goal of adapting technology, instruction, and assessment to meet a range of student needs. Prerequisites: Special Education 111 and permission of the education department chair.

1 Credit.

## English

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### English 221. English Literature Survey II.

Chronological overview of the development of English literature in England from the late 17<sup>th</sup> century through the early 20<sup>th</sup> century. Lecture, discussion, guest speakers, student reports or projects, research paper on a chosen period or author. Continuation of English 220; English 220 not prerequisite. Prerequisite: Writing 101.

3 Credits.

### English 320. The English Language.

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

Prerequisite: Any 200-level English course.

3 Credits.

### English 490. English Major Writing Project.

Writing project for the writing track of the English major. Independent work in criticism, fiction, or poetry, guided by an advisor. Involves student over a two-term period of the senior year.

3 Credits.

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

The 1-credit English Senior Seminar focuses 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.

## Environmental Science

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### Environmental Science 105. Introduction to Sustainability.

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

3 Credits.

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

1 Credit.

## Experiential Education

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### First Year Seminar 101.

This seminar is an interactive class promoting engagement in the curricular and co-curricular life of the college. It serves to position students for success at Bryn Athyn College through advancing academic preparedness and social integration. Students who complete this course successfully will be able to make informed and appropriate academic plans and social choices. All fall term first year students are required to take this course.

1 Credit.

## 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 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 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 213/313. Topics in Twentieth-Century Architecture: Bryn Athyn's National Historic Landmarks.

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

3 Credits.

### Fine Arts 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.

## German

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### German 101. Introductory German I.

Introduction to the German language for students without previous experience.

Emphasis is placed on communication and the foundations of German grammar. German is the language of instruction.

3 Credits.

## History

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

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

3 Credits.

### History 248. The Medieval World.

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

3 Credits.

### History 305. Topics in History. Asia.

Students take part in two historical role-playing games informed by classic texts: the Ming Dynasty succession crisis in 1587 China and the decisions surrounding Indian independence from the British Empire in 1948.

Focus on developing skills—speaking, writing, critical thinking, problem solving, leadership, and teamwork—in order to prevail in elaborate and complicated simulations. Open to second-year students and above.

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.

## 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.

### Computer Science/Mathematics 235. Discrete Structures.

Mathematical foundations for the analysis of computer systems. Recursive functions, sets, graph theory, and combinatorics. Prerequisite: Computer Science 180 or permission of instructor.

3 Credits.

### Mathematics 330. Introduction to Probability Theory.

Probability spaces, random variables, continuous distributions, joint distributions, correlation, and central limit theorems. This course has a computational component and can be used to fill a requirement in the Computer Science minor or ID area. Prerequisites: Mathematics 151 and Mathematics 240.

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: Interdisciplinary Studies 390.

2 Credits.

### Mathematics 499. Senior Project.

Independent study toward a mathematics project to be a companion to the Mathematics Interdisciplinary Senior Essay. Limited to and required of mathematics interdisciplinary majors.

Credit Variable.

## Music

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### Music 100. College Chorale.

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

1 Credit.

### Music 210. Music of Christianity.

Examination of the creation and use of sacred music in the context of Christianity, from the earliest church organizations through the numerous and diverse denominations of today.

3 Credits.

## 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 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.

## **Physical Education**

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

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

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

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

## **Political Science**

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

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

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

A consideration of political thinkers and theories, both ancient and modern, along with perennial issues in politics, such as justice, authority, liberty, order, equality, power, law, and forms of government. Strongly recommended: Philosophy 101. Prerequisite: Philosophy 102.  
3 Credits.

# Psychology

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## Psychology 101. Introductory Psychology.

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

3 Credits.

## Psychology 201. Abnormal Psychology.

Examination of mental disorders as classified by the medical model, including schizophrenia and other psychotic disorders, mood disorders, anxiety disorders, dissociative disorders, disorders of childhood, eating disorders, and personality disorders. Critical analysis of the principles and philosophy of the medical model, as well as the physiological underpinnings of certain disorders. Alternative views for the conceptualization of mental disorders explored. Prerequisite: Psychology 101 or department chair permission.

3 Credits.

## Psychology 203. Personality Theory.

Examination of both classical and current theories of personality. Focus on understanding terms and concepts of personality as well as their application to situational contexts. 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 341. Human Development: Adult Altruism. (EE, Moral)

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

3 Credits.

## Psychology 490. Research Methods in Psychology.

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 220. The Torah. (Scriptural)

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

3 Credits.

### Religion 283. Pre-Christian Religious History. (Comparative)

Survey of the history of pre-Christian religions emphasizing the rise, development, and fall of religions from ancient times to Biblical Israel. Topics include the character of revelation and the response to it in each successive religion, the origin of mankind, the origin of evil, and the rise of monogamy and polygamy, of monotheism and polytheism, and of idolatry in the ancient world.

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.

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

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

3 Credits.

## Sociology

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### Sociology 110. Introductory Sociology.

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

3 Credits.

## Spanish

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### Spanish 101. Introductory Spanish I.

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

## Theater

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### Theater 110. Introduction to Performance Arts.

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

### 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.  
3 Credits.

## 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 2017-18 Undergraduate Course List

As of 7/1/17. (Independent Study and Internship courses not listed).

BLOCK	COURSE	TITLE	CREDITS	INSTRUCTOR
6	Anth320	Genocide	3	A. Yardumian
4	Bio123	Introduction to Biology: Molecular Biology	3	A.F. Bryntesson
22	Bio123L_0	Introduction to Biology: Molecular Biology Lab	1	G. McMackin
24	Bio123L_1	Introduction to Biology: Molecular Biology Lab	1	G. McMackin
6	Bio124	Introductory Biology for Nursing Students	3	A.F. Bryntesson
6	Bio220	Human Anatomy and Physiology II	3	E. Higgins
22	Bio220L	Human Anatomy and Physiology II Lab	1	E. Higgins
4	Bio235	Ecology	3	E.R. Potapov
24	Bio235L	Ecology Lab	1	E.R. Potapov
3	Bio495	Senior Project	3	A.F. Bryntesson
15	Bus/Wrt220	Business Communications	3	K. King
12	Bus264	Sports Marketing	3	D. Shute
6	Bus301_0	Business Ethics	3	E.S. King
3	Bus301_1	Business Ethics	3	E.S. King
8	Bus327	International Financial Management	3	Staff
7	Bus495	Senior Capstone Project	2	E. Rogers
4	Chem110_0	General Chemistry I	3	E. Higgins
3	Chem110_1	General Chemistry I	3	Staff
21	Chem110L_0	General Chemistry I Lab	1	S.R. Evans
23	Chem110L_1	General Chemistry I Lab	1	S.R. Evans
21	Chem110L_2	General Chemistry I Lab	1	G. McMackin
23	Chem110L_3	General Chemistry I Lab	1	G. McMackin
5	Comm105_0	Public Speaking	3	S.V. Bernhardt
4	Comm105_1	Public Speaking	3	S.V. Bernhardt
16	CSci206	Introduction to Data Science	3	N. Simonetti
12	Dan134/234	Ballet	1.5	J.L. Bostock
5	Econ132	Microeconomics	3	E.S. King
1	Ed201	Foundations of Education	3	N.G. Phillips
14	Ed202	Moral Education	3	A.N. Rose
3	Ed218	Literacy Instruction for Young Learners I	3	N.G. Phillips
3	Ed272	Child Development: Birth to Age Nine	3	A.N. Rose
5	Ed323	Math and the Young Child	3	A.N. Rose
Special	Ed402	Student Teaching	12	N.G. Phillips
4	Eng220	English Literature Survey I	3	R.S. Cooper

11	Eng360	Victorian Literature	3	K. King
<b>Special</b>	Eng491	English Major Writing Project	3	K. King
15	FA130	Ceramics	3	C.K. Orthwein
15	FA230	Intermediate Ceramics	3	C.K. Orthwein
16	FA232	Computer Assisted Design	3	Staff
7	FA241	Building Arts Foundation II	3	S. Hartley
<b>Special</b>	FA495	Senior Essay	2	M. Gyllenhaal
21	FE2	Field Experience II: Exploration	3	N.G. Phillips
3	Germ102	Introductory German II	3	S.B. Lawing
4	Hist114	The Classical World	3	W.E. Closterman
14	HSoc402	Capstone Seminar II	3	S.B. Lawing
5	Lat110	Beginning Latin I	3	W.E. Closterman
12	Math095	Preparation for Quantitative Reasoning	1	M.T. Genzlinger
6	Math101	Introduction to Quantitative Reasoning	3	Staff
5	Math102	Understanding Mathematics in Society	3	N. Simonetti
4	Math115	College Algebra	3	M.T. Genzlinger
2	Math130_0	Introduction to Statistics	3	C.B. Bongers
5	Math130_1	Introduction to Statistics	3	C.B. Bongers
11	Math130L_0	Introduction to Statistics Lab	1	C.B. Bongers
12	Math130L_1	Introduction to Statistics Lab	1	C.B. Bongers
14	Math130L_2	Introduction to Statistics Lab	1	C.B. Bongers
2	Math151	Calculus II	3	N. Simonetti
14	Math151L	Calculus II Lab	1	N. Simonetti
<b>Special</b>	Math495	Senior Essay	2	N. Simonetti
<b>Special</b>	Mus100	College Chorale	1	G. Bier
12	Mus113	Music Theory I	3	G. Zuber
11	PE103	Life and Health	1	H.J. Bryntesson
7	PE133	Yoga	1	A. Irwin
4	Phil101	Critical Thinking	3	D.A. Synnestvedt
3	Phil102	Introduction to Philosophy	3	D.A. Synnestvedt
<b>Special</b>	Phil495	Senior Essay	3	D.A. Synnestvedt
5	Phys180	General Physics I: Mechanics	3	J. Ward
21	Phys180L	General Physics I: Mechanics Lab	1	J. Ward
2	PSci101_0	Introduction to Politics and Governance	3	D.G. Rose
3	PSci101_1	Introduction to Politics and Governance	3	D.G. Rose
6	PSci101_2	Introduction to Politics and Governance	3	D.G. Rose
12	PSci232	Issues in American Foreign Policy	3	D.G. Rose

4	Psyc102	Worldviews and History of Psychology	3	K.K. Rogers
12	Psyc230	Psychology and Spirituality	3	E. Goldblatt Hyatt
8	Psyc305	Physiological Psychology	3	F. Cavallo
2	Psyc491	Senior Research Seminar	3	E. Goldblatt Hyatt
12	Rel101_0	Introduction to New Church Doctrines	3	R.J. Silverman
6	Rel101_1	Introduction to New Church Doctrines	3	G. Schnarr
3	Rel101_2	Introduction to New Church Doctrines	3	C. Glenn
5	Rel115	Introduction to New Church Doctrine on Life After Death	3	S.I. Frazier
6	Rel125	The Holy Scripture	3	S.D. Cole
2	Rel205	God, Man, and Creation	3	K.H. Asplundh
5	Rel210	Divine Providence and Human Prudence	3	A.M.T. Dibb
6	Rel215	The Lord	3	G.H. Odhner
14	Rel272	Advanced Religious Ethics	3	R.J. Silverman
8	Rel305	Universal Doctrines of the New Church	3	S.I. Frazier
5	Rel335W	The Human Mind	3	S.D. Cole
3	Rel490	Religion Senior Project I	3	S.I. Frazier
14	Span102	Introductory Spanish II	3	M. Nunez
6	SpEd212	Supporting Students with Disabilities	3	S. Wong
7	SpEd312	Classroom Assessments	3	L. Synnestvedt
11	Thea130	Set Design and Production	1	N. Haus-Roth
16	Thea150	Dramatic Performance	3	J.L. Bostock
2	Writ100	Academic Writing	3	A. Nash
14	Writ101_0	Expository Writing	3	M.E. Latta
15	Writ101_1	Expository Writing	3	M.E. Latta
4	Writ202_0	Writing About Literature	3	A. Nash
3	Writ202_1	Writing About Literature	3	C. Hoffman
14	Writ213	Advanced Rhetoric and Composition	3	T.P. Glenn

+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 2017-18 Undergraduate Courses

## Anthropology

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### Anthropology 320. Genocide.

Seminar course on genocides in the 20th century. Focuses primarily on the cases of Ottoman Armenia, The Holocaust, and Rwanda. Through primary and secondary literature, examines the cultural context, historical background and legal frameworks, denialist projects, and memorializations. Political and psychological ramifications in the descendant communities of victims and victimizers are considered, as well as reparation processes. Prerequisite: Anthropology 110 or any history class, 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 124. Introductory Biology for Nursing Students.

Introductory biology course for students accepted into the nursing program. The course provides an introduction to cell biology focusing on the structure and function of the plasma membrane and cellular organelles, the fundamentals of Mendelian and non-Mendelian inheritance, and the structure and function of the genetic material DNA, with an emphasis on the genetic code and how it is expressed into RNA and protein.

3 Credits.

### 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/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 264. Sports Marketing.**

This course will study the marketing efforts within the sports industry, including the understanding of the sports customer, and promotional and marketing strategies. Topics include fan behavior, ticketing, advertising, sponsorship, licensing, endorsements, public relations, hospitality, social media, and event management. Prerequisite: any economics course. Bus254 and Bus267 recommended.  
3 Credits.

### **Business 301. Business Ethics. (Moral, PP)**

The analysis of moral principles and their application to decision making in business. Includes an overview of philosophical and theological ethical theories, including New Church ethics. Major focus on the analysis of ethical concerns in actual case studies from business, involving issues such as downsizing, whistle-blowing, competition vs. cooperation, and social responsibility. Communication 105 or any other public presentation course is recommended before taking this course.  
3 Credits.

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

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

## 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 206. Introduction to Data Science.

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

## Dance

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### 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.

## 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 202. Moral Education. (Moral)

Students will learn methods for teaching respect and responsibility and their derivative values. Special attention will be given to the role of storytelling in moral education. Topics include sex education, bullying, and conflict resolution.

3 Credits.

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

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.

### Field Experience II. Exploration.

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

3 Credits.

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

This course examines the characteristics and needs of students who are identified under the 13 federally defined categories of disabilities. Emphasis is on investigating the complexity of these needs and the specially designed instruction that meets them. Research-based frameworks such as UDL, as well as 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 competencies and skills needed to accommodate and adapt instruction for all students, including those with disabilities and various learning needs, in an inclusive setting. How to effectively use various assessment and evaluative tools in the classroom, in order to meet the learning needs and goals. Learn to identify, administer, interpret and plan instruction based on the assessment of student learning, as well as consider problem solving, and classroom management as part of this process. Prerequisite: Special Education 111 and permission of the education department chair.

3 Credits.

## English

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### English 220. English Literature Survey I.

Chronological overview of the development of English literature in England from the early medieval period through the mid-17<sup>th</sup> century. Lecture and discussion on such authors as Chaucer, Shakespeare, Marlowe, Donne, Jonson, and more. Prerequisite: Writing 101.

3 Credits.

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

Study of selected literary figures of England from 1830 to 1900, with emphasis on trends in religion, philosophy, and science, and on the literary form of the novel. Prerequisite: Any 200-level English course.

3 Credits.

### English 491. English Major Writing Project.

Completion of the senior writing project.

3 Credits.

## 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.

### Service Project 1xx.

Students who participate in a Bryn Athyn College approved service project may apply to receive an EE credit waiver.

1 Credit.

## Fine Arts

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### 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 230. Intermediate Ceramics.

Further development of individual skills and sensitivities in the medium of clay. Prerequisite: Fine Arts 130.

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 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 495. Senior Essay.

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

## German

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### German 102. Introductory German II.

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

## 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 publically 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 110. Beginning Latin I.

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

## Mathematics

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### Mathematics 095. Preparation for Quantitative Reasoning.

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

1 Credit.

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

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

3 Credits.

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

Review of mathematical topics with an emphasis on understanding why certain patterns appear. Topics include sets, number systems, geometry, and basic statistics and probability. Recommended for students in education and philosophy. Prerequisite: Math 101 or appropriate score on placement test.

3 Credits.

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

Algebraic topics designed to assist in the use of mathematics in science courses. Topics include exponents and radicals, rational expressions, inequalities, complex numbers, polynomial analysis and advanced factoring, rational functions and asymptotes, and quantitative reasoning applications. Because of duplication of subject matter, students may not receive credit for both Mathematics 115 and Mathematics 120. Prerequisite: Mathematics 101 or appropriate score on placement test.

3 Credits.

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

Introduction to data analysis, random variables and their distributions, and statistical inference. Statistical software used for graphing and data analysis. Independent research project. Recommended for students of business or the social and natural sciences. Prerequisite: Mathematics 101 or appropriate score on placement test.

4 Credits.

### Mathematics 151. Calculus II.

Methods and applications of integration, improper integrals, infinite series, Taylor polynomials, and parametric equations. Prerequisite: Mathematics 150.

4 Credits.

### Mathematics 495. Senior Essay.

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

### Music 113. Music Theory I. (QR)

Study of music theory and harmony, progressing from basic notation to advanced musical structures. Includes styles from the 18<sup>th</sup>-20<sup>th</sup> centuries.

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 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 103. Life and Health.

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

1 Credit.

### Physical Education 133. Yoga.

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

1 Credit.

## Physics

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### Physics 180. General Physics I: Mechanics. (QR)

An algebra and trigonometry-based physics course that provides an overview of mechanics, thermodynamics and vibrations, primarily for students interested in majoring in biology (including pre-med), psychology or chemistry, rather than engineering or mathematics. Emphasis is on examples and applications rather than derivations. Credit is only awarded for one of Physics 180 or Physics 210. Pre-requisite: Math 125 or equivalent.

3 Credits.

### Physics 180 Lab. General Physics I: Mechanics 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 232. Issues in American Foreign Policy. (W)

Consideration of American foreign policy through an examination of dominant themes and a series of case studies highlighting both levels of analysis and decision-making theories. Prerequisites: Political Science 101, History 117, or instructor permission.

3 Credits.

## 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 230. Psychology and Spirituality.

Examinations of psychological research and theories about people’s attitudes, motivations, behaviors, thoughts and feelings in a variety of spiritual settings. Investigations of how therapists address spiritual matters in counseling sessions. Consideration of the psychological experience of the Swedenborgian belief in the afterlife, regeneration, charity, conscience, and the relationship between God and humans. Prerequisite: Psychology 101 or department chair permission.

3 Credits.

### Psychology 305. Physiological Psychology. (II)

Exploration of the neural basis of behavior and motivation. Emphasis on the structure, functions and disorders. Topics include memory, emotion, learning, addictions, conscience, states of mind, and self-regulation. Consideration of Swedenborgian view of the brain, mind, and the soul. Information Literacy skills emphasized. Prerequisite: Psychology 101 and either Biology 122 or department chair permission.  
3 Credits.

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

Systematic survey of the universal theology of the New Church: God the Creator, the Lord the Redeemer, the Holy Spirit, the Holy Scripture and Ten Commandments, and Faith. Text: *True Christian Religion*.

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.

## 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 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.

1 Credit.

### 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.  
3 Credits.

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

Intensive study of writing for students interested in developing rhetorical skills in composition. Attention both to concepts of classical rhetoric and to issues arising in the context of contemporary cultural environments and communications practices. Prerequisite: Writing 101.  
3 Credits.

## Spring Term 2017-18 Undergraduate Course List

As of 7/1/17. (Independent Study and Internship courses not listed).

BLOCK	COURSE	TITLE	CREDITS	INSTRUCTOR
14	Anth110_0	An Introduction to Cultural Anthropology	3	A. Yardumian
16	Anth110_1	An Introduction to Cultural Anthropology	3	A. Yardumian
6	Bio232	Cell Structure and Function	3	A.F. Bryntesson
2	Bio250	Microbiology	3	E. Higgins
24	Bio250L	Microbiology Lab	1	E. Higgins
4	Bio355	Cancer Biology	3	A.F. Bryntesson
12	Bio373_0	Biological Laboratory Techniques: Molecular Biology	2	S.R. Evans
11	Bio373_1	Biological Laboratory Techniques: Molecular Biology	2	S.R. Evans
3	Bio380	Research Seminar	1	E. Higgins
3	Bio492	Biology Seminar III	1	E.R. Potapov
8	Bus142	Accounting II	3	C. Waltrich
7	Bus257	Principles of Management	3	W.B. Jungé
5	Bus272	Drone Applications in Business and Science	3	E.S. King
4	Bus290	Internship Preparation Seminar	1	L.C. Nash
15	Bus302	Corporate Social Responsibility	3	W.B. Jungé
14	Bus351	Introduction to Business Law	3	B. Buick
2	Bus390	Business Seminar	2	E.S. King
2	Bus/ID496	Senior Seminar III	1	L.C. Nash
3	Chem111_0	General Chemistry II	3	Staff
2	Chem111_1	General Chemistry II	3	Staff
23	Chem111L_0	General Chemistry II Lab	1	S.R. Evans
21	Chem111L_1	General Chemistry II Lab	1	G. McMackin
23	Chem111L_2	General Chemistry II Lab	1	G. McMackin
5	Comm105_0	Public Speaking	3	S.V. Bernhardt
6	Comm105_1	Public Speaking	3	S.V. Bernhardt
7	Comm130	Foundations of Graphic Design	3	Staff
16	CS/Math230	Statistics and Data Mining	3	A. Burke
7	CS/Math235	Discrete Structures	3	N. Simonetti
12	Dan132/232	Jazz Dance	1.5	J.L. Bostock
16	Dan160/260/ 360	Dance Ensemble	1.5	J.L. Bostock
3	Dan332	Choreography and Composition	3	J.L. Bostock

4	Econ132	Microeconomics	3	E.S. King
5	Ed128	Introduction to the Theory and Practice of Education	3	A.N. Rose
7	Ed219	Literacy for Young Learners II	3	A.N. Rose
5	Ed274	Adolescent Growth and Development Ages 8-18	3	N.G. Phillips
<b>Special</b>	Ed402	Student Teaching	12	N.G. Phillips
2	Eng105	Our Own Voices: Discovering Diversity in Contemporary Fiction	3	A. Nash
4	Eng235	Shakespeare	3	R.S. Cooper
3	EnSci105	Introduction to Sustainability	3	E.R. Potapov
22	EnSci105L	Introduction to Sustainability Lab	1	E.R. Potapov
14	FA122	Metal Forging	3	W. Holzman
15	FA125	Photography	3	C.K. Orthwein
15	FA128_0	Glass Painting	3	J.K. Leap
16	FA128_1	Glass Painting	3	J.K. Leap
6	FA251	Integrating Art into a Child's Early Years	3	M. Gyllenhaal
15	FA228_0	Intermediate Stained Glass Painting	3	J.K. Leap
16	FA228_1	Intermediate Stained Glass Painting	3	J.K. Leap
6	FA251	Integrating Art Into a Child's Early Years	1.5	M. Gyllenhaal
21	FE3	Field Experience III	3	N.G. Phillips
5	Hist117	The Contemporary World	3	D.G. Rose
4	Hist217	Nazi Germany	3	S.B. Lawing
3	Hist311	Vengeance and Justice in Medieval Europe	3	S.B. Lawing
8	ID390	Research Seminar	2	S. Gardam
6	Lat111	Beginning Latin II	3	W.E. Closterman
11	Lead130	Introduction to Leadership	3	L.C. Nash
12	Math095	Preparation for Quantitative Reasoning	1	M.T. Genzlinger
3	Math101	Introduction to Quantitative Reasoning	3	Staff
4	Math115	College Algebra	3	M.T. Genzlinger
14	Math124	Transcendental Functions	1.5	N. Simonetti
5	Math130	Introduction to Statistics	3	C.B. Bongers
12	Math130L_0	Introduction to Statistics Lab	1	C.B. Bongers
14	Math130L_1	Introduction to Statistics Lab	1	C.B. Bongers
3	Math250	Calculus III	3	M. Blair
14	Math250L	Calculus III Lab	1	M. Blair
<b>Special</b>	Mus100	College Chorale	1	G. Bier

5	Nutr110	Principles of Nutrition	3	S. Nelson
2	PE120	Physical Fitness For You	1	H.J. Bryntesson
5	PE127	Kickboxing and Self Defense	1	R. Furry
6	Phil101	Critical Thinking	3	S.D. Cole
5	Phil102	Introduction to Philosophy	3	S.D. Cole
11	Phil111	Introduction to Moral Philosophy	3	M.E. Latta
16	Phil340	Bioethics	3	M.E. Latta
3	PSci101	Introduction to Politics and Governance	3	D.G. Rose
7	PSci260	Law and American Society	3	E. Rogers
12	Psyc101	Introductory Psychology	3	K.K. Rogers
4	Psyc204	Human Development: Lifespan	3	K.K. Rogers
14	Psyc301	Counseling and Clinical Psychology	3	K.K. Rogers
8	Psyc320	Introduction to Experiments in Psychology	3	F. Cavallo
3	Psyc492	Senior Seminar	1	L.C. Nash
12	Rel110	Introduction to Systematic Theology	3	B. Buick
3	Rel115_0	Introduction to New Church Doctrine on Life After Death	3	G. Schnarr
4	Rel115_1	Introduction to New Church Doctrine on Life After Death	3	G. Schnarr
6	Rel115_2	Introduction to New Church Doctrine on Life After Death	3	S.I. Frazier
3	Rel205	God, Man, and Creation	3	S.I. Frazier
2	Rel222	The Gospels	3	S.I. Frazier
12	Rel273W	Religion and Marriage	3	R.J. Silverman
15	Rel296	Eastern Religious Thought/Hinduism	3	R.J. Silverman
12	Rel306	Universal Doctrines of the New Church	3	T.P. Glenn
6	Rel335W	The Human Mind	3	J. Simons
5	SpEd213	Family and Community Partnership	3	S. Wong
7	SpEd313	Research-Based Interventions	3	K.M. Ballard
6	Writ101_0	Expository Writing	3	R.S. Cooper
2	Writ101_1	Expository Writing	3	C. Hoffman
4	Writ202_0	Writing About Literature	3	D. Harrison
3	Writ202_1	Writing About Literature	3	D. Harrison
	Writ212	Creative Non-Fiction Writing	3	C. Hoffman

+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 2017-18 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.

## Biology

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### Biology 232. Cell Structure and Function. (PP)

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 355. Cancer Biology.

Focus on how cells and organs interact via biochemical signaling mechanisms. Special attention to the mechanisms that govern the cell cycle and how a disrupted cell causes cancer. Cancer and various treatments discussed. Prerequisites: Biology 230 and Biology 232.

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**

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/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 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 390. Research Seminar. (IL)**

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

2 Credits.

### **Business/ID 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.

### **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 Photoshop and InDesign.

3 Credits.

## Computer Science

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### Computer Science/Mathematics 230. Statistics and Data Mining.

This project-based course builds on what was learned in Mathematics 130 with an eye on big data sets. Topics include regression analysis, least squares, and decision-making based on inference. Special cases of the regression model, analysis of variance (ANOVA) and covariance (ANCOVA), and logistic regression models will be covered. Attention will be given to conditioning data sets for analysis and summarizing data and conclusions efficiently and effectively. Throughout the course, the programming language R will be used. Prerequisites: Mathematics 130.  
3 Credits.

### Computer Science/Mathematics 235. Discrete Structures.

Mathematical foundations for the analysis of computer systems. Recursive functions, sets, graph theory, and combinatorics. Prerequisite: Computer Science 180 or permission of instructor.  
3 Credits.

## Dance

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### Dance 132/232. Jazz Dance. (EEC)

Beginner (Dance 132) and Intermediate (Dance 232) course in Jazz dance technique. Students learn jazz dance technique and develop creativity, flexibility, coordination, and rhythm. Dan 232 includes choreography projects, and both levels culminate in a public performance at the end-of-term concert. Course may be repeated once for credit. Prerequisite for Dance 232: Dance 132 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 332. Choreography & Composition. (EEC)

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

## Economics

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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. (PP)

Aspects of a career in teaching are explored. Topics include: teaching as a profession, educational philosophies, and best practices in classroom instruction. Students are required to observe in either a preschool, elementary, or secondary school New Church classroom and participate in at least three field trips to other schools. 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.

### Field Experience III. Pre-student Teaching.

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

3 Credits.

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

This course examines the importance of collaboration when serving students with various needs. Addresses the skills 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. Taken in conjunction with FE III. 3 Credits. Prerequisite: Special Education 111 and permission of the education department chair.

3 Credits.

## English

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### English 105. Our Own Voices: Discovering Diversity in Contemporary Fiction (Introductory Literature Seminar).

An introduction to contemporary literature that explores, studies, and celebrates diversity in both content and authorship.

3 credits.

### English 235. Shakespeare. (W)

In-depth study of selected Shakespearean tragedies, comedies, histories, and sonnets. Lectures and collateral readings with background of the Elizabethan world. Prerequisite: Writing 101.

3 Credits.

## Environmental Science

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### Environmental Science 105. Introduction to Sustainability.

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

3 Credits.

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

1 Credit.

## Experiential Education

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### 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 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 125. Photography.

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

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 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 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.

## 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 217. Nazi Germany.

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

3 Credits.

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

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

3 Credits.

## 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.

## Latin

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### Latin 111. Beginning Latin II.

Continuation of Latin 110. Prerequisite: Latin 110.

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 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, 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 250. Calculus III.

Functions of several variables, partial differentiation, multiple integration, vector calculus. Prerequisite: Mathematics 151.

4 Credits.

## Music

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### Music 100. College Chorale.

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

1 Credit.

## 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 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 120. Physical Fitness for You.

Student-designed individual program based on theoretical and practical fitness concepts. Workouts during class twice a week in the fitness center. Course may be repeated once for credit.

1 Credit.

### Physical Education 127. Kickboxing and Self-Defense.

Basic instruction in a power-punching, non-choreographed martial arts workout. Emphasis on proper technique and execution of skills. Each class includes a total-body warm-up and cool-down/stretching period. Course may be repeated once for credit.

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 260. Law and American Society.

An introduction to the American legal system examining the basic tenets of the American Legal system, including theories of jurisprudence and an examination of the Constitution as the framework for our legal system. Students will explore how laws are created and enforced through the court systems, legislatures, and administrative agencies. The course includes an introduction to legal research, case briefing, and mock trial.

3 Credits.

## Psychology

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### Psychology 101. Introductory Psychology.

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

3 Credits.

### Psychology 204. Human Development: Lifespan.

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 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 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 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 296. Eastern Religious Thought/Hinduism. (Comparative)

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

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

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

## 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.

### Writing 212. Creative Nonfiction Writing. (W)

A study of contemporary creative nonfiction—the use of traditional literary devices to express factual content. This workshop-style course includes the creative memoir, the humorous anecdote, artistic biography, and the personal interview. We will also address imaginative text-messaging, effective emailing and the art of blogging. Students will read representative writers, critique each other's papers, and learn about the ethics of public discourse, especially in relation to the opportunities and challenges of the digital revolution and the World Wide Web. Prerequisite: Writing 101.  
3 credits.

# Building Arts Workshops

SUMMER 2017

## Blacksmithing

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Steel Repousse 6/12-6/16

Warren Holzman

Students will learn the fundamentals related to chasing and repousse in steel. Repousse is an exciting way to create relief images that exists somewhere between drawing and sculpture. The approach will focus on dynamic image development not unlike composition related to painting. Students will have the opportunity to work on larger scale pieces created over a wood stump. The course will cover design development, tool making, and finishing.

Forged/Fire/Food - Cooking Tool Class 6/19-6/23

Jorgen Harle

This class will use all the basic forging techniques, and a few advanced ones to explore the tradition of metal as a material to cook food over an open flame. Forks, tongs, spatulas, and spoons will be demonstrated and all students can expect to leave this workshop with some very functional cookware that will last for generations. Tradition and utility will drive the forms taught in this specialty tool class but personal expression and design will be enthusiastically pursued. Extensive R&D will be done at the end of each project (that's art speak for BBQ). Knives and cleavers will NOT be addressed in this class.

Early American Wrought Iron Hardware 7/10-7/14

Luke DiBerardinis

Learn the fundamentals of blacksmithing and improve your skills through the forging of historic hardware. Students can expect a daily demonstration of colonial hardware forging and will be able to customize their projects based on skill level. Topics and demonstrations will cover strap hinges and all their various finials, rams horn hinges, rat tail hinges, pintles, rivets, and clinch nails. Pull handles, thumb latches and all their parts, and installation procedures of the hardware will also be covered. All elements of blacksmithing will be utilized through these projects. By forging utilitarian and function, yet highly decorative pieces of house hardware, students will learn slitting, punching, drifting, upsetting, drawing, bending, forge welding, and fire management techniques.

Volume and Form 7/17-7/21

Maegan Crowley

This course is designed to stimulate your metal vocabulary. We will be forging structural materials; learning the tricks of forging pipe, tubing, and channel. Hot and cold sheet forming techniques will also be demonstrated. Pattern making and layout methods will be discussed as we use sheet metal to achieve volume. Students will then have the opportunity to combine techniques to create their own forms. We will also address fabrication methods and metal finishing. There will be an emphasis on individual expression as the instructor works with each student to develop their own representation of form. Bring a sketchbook and an open mind.

## Mosaic

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### Glass Mosaic 7/10-7/14

#### Carol Stirton-Broad

Mosaic Art is having a resurgence in the United States and glass in many forms is playing a major role in this new wave of artistic creativity. In this workshop we will look at several of these types of glass, focusing on the traditional Italian Smalti and comparing it to the products from Mexico, China, and the United States. In addition, we will have a sampling of other materials available including some marble and stone. Each participant will produce a small sampler using traditional techniques. Next you will design a larger piece, using these materials in your own style. We will cover design transfer and realize the final work of art using the direct method. There are a limited number of hammer and hardies available for you to try as well as a collection of glass nippers for you to experiment with.

## Stained Glass

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### Munich Style Glass Painting 6/19-6/23

#### J. Kenneth Leap

Learn the art of mixing, applying and firing glass-based paints, enamels and stains. This class will start with the core skills of traditional glass painting – tracing and matting. We will then concentrate on 19<sup>th</sup> century figurative techniques as exemplified by the Munich Style. Students can choose to practice replicating brocade patterned drapery, foliage, ornamental architectural borders and of course painting the figure. This course will introduce a variety of processes for mixing and layering pigments with exotic mediums. Glass selection and enamel work for flesh will be explored in depth. This class will be of specific interest to restoration painters and to all who admire the techniques of the 19<sup>th</sup> century. This class is designed to complement the workshop “Stained Glass Repair & Conservation” with Steve Hartley offered July 10-14, 2017.

### Stained Glass Conservation 7/10-7/14

#### Steve Hartley

This hands-on course will introduce proper evaluation and documentation techniques for stained glass conservation. Students will participate in repairing a 19<sup>th</sup> Century stained glass window while practicing conservation techniques including cleaning, copper foil repairs, and chemical edge bonding. Restoration painting including glass selection and color matching historic pigments will be discussed and practiced.

### The Art of Glass Painting 7/17-7/21

#### Jim M. Berberich

You can master the art of glass painting. The simple methods we will use in class have been proven effective and will give you the skills needed to achieve your goals. As you can imagine, for the thousand years that this applied art form has been in existence, a multitude of techniques have been created. The different approaches have added confusion to this medium. We will focus on some traditional methods with a twist, going into detail on how and why these methods work. There will be demonstrations, open discussion and a lot of one on one guidance from the instructor. The objective of the class is for the student to leave with confidence, and an understanding and knowledge of how to create beautiful glass paintings. The class projects will include portraits and life subjects, using vitreous paints, enamels and stains.

## Stone Carving

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### Cathedral Stone Carving 6/19-6/23

#### Jens Langlotz

Participants will have a rare opportunity to work in the shadow of a working cathedral. Join master mason Jens Langlotz in the historic Bryn Athyn stone shops. Brief demonstrations of techniques will prepare you for shaping your own piece. The workshop covers stone types and properties, the use of different kinds of chisels for texturing, the fundamentals of letter design, both low and high relieve carving, and rosette design. You may choose to copy an architectural detail from Bryn Athyn Cathedral, such as one of the rosettes on the side of the building, or make an original piece of your own. No experience is necessary, and more advanced students are always welcome.

### Cathedral Stone Carving 7/10-7/14

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# Fall Term 2017-18 Graduate Courses

## Theological School

### Ed 631: Instructional Methods and Design for Religion:

A seminar survey course on educational methods for theological school students. Students are encouraged to reflect on their own experiences in education, analyze best teaching practices in light of the Heavenly Doctrine and develop ways to apply what they have learned in a variety of settings. Students work cooperatively and individually to design effective religious instruction. When designing instruction emphasis is placed on aligning learning goals, instructional methods and assessment practices.

Seminar.  
K.R. Alden

### 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  
E.G. Hyatt

### Homiletics 911: Principles of Exposition.

Study of the letter of the Word in reference to the doctrine of genuine truth, the science of correspondences, and the spiritual sense of the Word. Study of the principles of exposition in application to selected texts in the letter of the Word.

Seminar.  
G.H. Odhner

### 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 646: Conversations on Marriage.

A study of the doctrines about marriage as contained in the work, *Conjugal Love*, with an emphasis on the pastoral issues concerning marriage. Concerned primarily with the teachings related to eternal marriage and the happiness brings, this course also deals with current issues of gender difference, with the disorders of society, and the breakdown of the love of marriage.

Seminar.

A.M.T. Dibb

### Theology 691: Doctrine Concerning New Church Education.

The purpose of this course is to provide an introduction to doctrinal concepts and applications drawn from these concepts that have guided concerning New Church education. It will prepare the students to effectively present these ideas in a variety of contexts. Resources and consultation available from the General Church of the New Jerusalem Office of Education are also introduced.

Workshop.

P.M.Buss Jr.

### 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 2017-18 Graduate Courses

## Theological School

### Church History 684: The Christian Church: Rise and Fall.

Growth of the Christian Church from its primitive beginnings through its decline, the Reformation through modern developments. Emphasis is on the history of the various teachings about the Lord, and how these both reflected the times they were devised in, and how they have impacted the development of the Christian Church.

Seminar.

A.M.T. Dibb

### Communication 718: Topics in Communication II. (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

### Counseling 844: Introduction to Pastoral Counseling I.

An examination of the basic principles of counseling for individuals, including three facilitative conditions, three action conditions, and the micro boundaries inherent in all communication. Basic listening and responding skills are practiced in small groups and in role plays. Special emphasis is placed on recognizing problems that need to be referred to other professionals, when to make such referrals, and to whom these referrals should be made. Teachings from the Heavenly Doctrines are included that support the counseling process. Text: On Becoming a Counselor by Kennedy and Charles.

Seminar.

K. Roth

### Ed 634: Delivering and Managing Religious Instruction.

A series of 10 workshops that focus on supporting theological students while they apply, in at least two settings, the concepts they learned in Ed 631. Students are introduced to beginning level classroom management skills and asked to evaluate the skills in light of the Heavenly Doctrines.

Workshop.

K.R. Alden

### 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

E.G. Hyatt

### Homiletics 932: Sermons: A Variety of Topics and Focus.

Writing general purpose and festival sermons. Emphasis is upon organization of material for ease of presentation.

Workshop.

G.R. Schnarr

### Pastoral Theology 848: Priestly Duties.

Pastoral responsibilities. A broad review of the practical responsibilities of a General Church of the New Jerusalem pastor as contained in the Pastor's Handbook.

Workshop.

A. M.T. Dibb

### Theology 612. Doctrine of the Lord: The Incarnation

The systematic teachings of the Writings about the Lord: His essential nature from eternity; His relationship with us before the advent; why He needed to "come"; what He accomplished (redemption), how He accomplished it (glorification of His human); the enduring effect of the glorified Divine Natural/Divine Human, and of the Lord's presence /"proceeding" through it. In considering His glorification process we look at His conception and development in the human, and especially at His spiritual progress through states of temptations, the very means by which He subjugated the hells.

Seminar.

G.H. Odhner

### Theology 628. New Testament Themes.

The character of the Four Gospels, their inspiration, differences, major themes present in the individual Gospels and in the overall dispensation. (The Apocalypse will not be left out of this discussion, but is covered in greater detail in Theology 668.) There will be some attention to historical context, including a look at the Acts and Epistles.

Seminar.

G.H. Odhner

### 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 728: Speech III: Advanced Concepts in Public Speaking and Interpersonal Communication.

Advanced interpersonal communication theory, skills development, and practice.

Workshop.

M.H. Williams

# Spring Term 2017-18 Graduate Courses

## Theological School

### Church History 686: Swedenborg's Life and Call.

A brief survey of Swedenborg's life and preparation to receive the new revelation. A more detailed examination of his transition period (1743-1748). The writing and publication of Swedenborg's theological Writings and public response during his life.

Seminar.

G.H. Odhner

### Counselling 846: Bereavement, Death and Dying.

Seminar.

E.G. Hyatt

### Experiential Learning:

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Workshop.

E.G. Hyatt

### 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 933: Sermon Presentation and Memorial Addresses.

This term of homiletics focuses on writing for how sermons are heard and writing memorial services. Fully written out sermons and preaching from outlines are included with an emphasis on styles and techniques which facilitate or could hamper congregations hearing the message. The function of memorial services are considered in the grieving process and the pastor's role in the transition to the other world.

Workshop.

P.M.Buss, Jr.

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

Introductory course exploring the doctrinal underpinnings of ritual in the General Church of the New Jerusalem (GCNJ). We consider how and why the GCNJ office came into being, exploring the development of liturgical practice in the New Church from its earliest days to the present. We also consider more contemporary forms of worship in the GCNJ. 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 853: Liturgics: Rites and Sacraments.

A review of the doctrines associated with liturgics with a focus on the doctrines surrounding the sacraments and rites of the New Church. We look at current practice in the General Church of the New Jerusalem: how the sacraments and rites are performed as described in the Liturgy and as adapted to various circumstances and needs. Design of orders of service and practice are a central part of this workshop.

Workshop.

A.M.T. Dibb

### Theology 640: Seminar on the Divine Providence.

A study of the Lord’s government with a focus on the laws and fundamental principles regulating the His interaction with people and their response to Him, as seen in the work *Divine Providence*. Comparison with *Apocalypse Explained* treatment of "laws of Divine Providence." Relation of Providence to free human activity.

Seminar.

A.M.T. Dibb

### Theology 662: Doctrine of the Spiritual World: II. Realities of spiritual world as portrayed in the book *Heaven and Hell*

A continuation of Theology 660. This course traces the continued process of a spirits as they enter into either heaven or hell. It also explores the divisions of the Spiritual World and the distinctive features of heaven and hell, the doctrine of the Grand Man, the life of children in heaven and the qualities of hell.

Seminar.

A.M.T. Dibb