FAU
FLORIDA ATLANTIC UNIVERSITY

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MEMORANDUM:

TO: Dr. Jerome Haky
Chair, University Undergraduate Programs Committee (UUPC)

FROM: Dr. Mary Ann Gosser
Chair, University Honors Council (UHC)
University Honors Coordinator

DATE: 12 February 2016

RE: Wilkes Honors College Conversion of BA Degrees to BS Degrees

The University Honors Council met today to review and discuss the Wilkes Honors College's proposal to convert BA degrees to BS degrees. These include: Biological Chemistry, Biology, Chemistry, The Environmental Science track within Environmental Studies, Neuroscience—Track One: Cellular Neuroscience, Neuroscience—Track Two: Neuroscience, Cognition, and Behavior; Physics, and Psychology.

The University Honors Council endorses the request.

HARRIET L. WILKES
HONORS COLLEGE
FLORIDA ATLANTIC UNIVERSITY

MEMORANDUM

TO: Russ Ivy
Associate Provost

FROM: Jeffrey L. Buller
Dean

RE: Converting B.A. Degrees to B.S. Degrees

DATE: January 5, 2016

The faculty of the Wilkes Honors College is requesting that, for the following concentrations within the college, the degrees that it offers be designated as Bachelor of Science in Liberal Arts and Sciences (instead of the current Bachelor of Arts in Liberal Arts and Sciences):

- Biological Chemistry
- Biology
- Chemistry
- The Environmental Science track within Environmental Studies
- Marine Biology
- Neuroscience-Track One: Cellular Neuroscience
- Neuroscience-Track Two: Neuroscience, Cognition, and Behavior
- Physics
- Psychology

The rationale for this request includes the following:

- Unlike other concentrations within the college, the concentrations listed above include a preponderance of coursework in the natural sciences and mathematics. (See accompanying grid, which provides a concise summary of the total credits of science courses in these concentrations.)
- In instances where the same or comparable programs are offered as majors by other units of the university, those degrees are available as Bachelor of Science degrees.

Harriet L. Wilkes Honors College
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- Current and prospective students of the college regularly request the availability of Bachelor of Science degrees in these concentrations.
- The new degree designation will reinforce the college's commitment to and support of the Jupiter Science Initiative.

I would request that the college be permitted to issue degrees in the above concentrations as Bachelor of Science instead of Bachelor of Arts degrees beginning Fall 2016 with the understanding that student who came in under the B.A. system would have the option of requesting a B.A.

Concise Summary of Minimum Credit Hours in Math and Science by Concentration

	Core Science (Min)	Core Math (Min)	Other math/natural science (minimum)--- excluding thesis	Total Math/Science credits
Biological Chemistry	8	7	50	65
Biology	8	7	44	59
Chemistry	8	7	42	57
Environmental Studies (science track)	8	7	20	35
Marine Biology	8	7	48	63
Neuroscience-Track One: Cellular Neuroscience	8	7	46	61
Neuroscience-Track Two: Neuroscience, Cognition, and Behavior	8	6	23*	37
Physics	8	7	23	38
Psychology	7	6	12*	25

*Does not count PSY/CLP/EXP/PPE/DEP/SOP as Natural Science.

(Assumes students in these programs enter FAU with Precalc and count Calc I for Core.)

Requirement outlines for these degrees follow.

Signature Page
Wilkes Honors College B.A. to B.S. Request

Department Chair: _____

College Curriculum Chair: _____

College Dean: _____

UUPC Chair: _____ 2/26/16

Undergraduate Studies Dean: _____ 3/1/16

UFS President: _____

Provost: _____

A note on the Honors College curriculum.

Since Honors College concentrations may at times look a bit different from traditional college majors, a brief note of explanation may be in order.

Concentrations in the Wilkes Honors College are designed, whenever possible, to provide students with the greatest amount of flexibility in choosing courses to fulfill requirements. This amount of flexibility allows a program to be adapted to the individual needs and career trajectory of each high ability student and to graduate in a timely manner.

Many concentrations thus allow Special Topics courses to fulfill certain requirements or electives, with the approval of either the advisor or the committee in charge of that concentration. Examples of Special Topics courses that have been approved in the past for specific concentrations in the past may be found on the degree pages of the Honors College website. (Click on the individual concentration listed at www.fau.edu/honors/academics/majors/concentrations.php.)

Although the pages below list the catalog name for the course (for example, Special Topics in Science and Mathematics), the college's website frequently lists specific topics that have been approved so as to provide better guidance for students.

Honors College Concentrations
Proposed for Change from B.A. to B.S.

CONCENTRATION IN BIOLOGICAL CHEMISTRY

Course #	Course Name	Credits
BSC 1010, 1010L	Honors Biological Principles with Lab	4
PCB 3063	Honors Genetics	4
PCB 4102	Honors Cell Biology	4
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
BCH 3033, 3033L	Honors Biochemistry with Lab	4
STA 2023	Honors Introductory Statistics	3
MAC 2311	Honors Calculus I	4
MAC 2312	Honors Calculus II	4
PHY 2048, 2048L	Honors General Physics I with Lab	5
PHY 2049, 2049L	Honors General Physics II with Lab	5
	4 Electives; 2 in Biology and 2 in Chemistry, with at least one chemistry lab.	12
BSC 4915/ / CHM 4912 or 4914	Honors Research in Biology/Chemistry	3
BSC 4970 / CHM 4970	Honors Thesis in Biology/Chemistry	3
Total Credits		**71**

BIOLOGY ELECTIVES

Course #	Course Name	Credits
MCB 3020, 3020L	Honors Microbiology with Lab	4
PCB 4024	Honors Molecular Cell Biology	3
BSC 4402L	Honors Fluorescence Microscopy	3
BSC 4403L	Honors Biotechnology Lab	3
PCB 4253	Honors Developmental Biology	3
PCB 4324	Honors Cancer Biology	3

CHEMISTRY ELECTIVES

Course #	Course Name	Credits
CHM 3085	Honors Environmental Chemistry	3
CHM 3121, 3121L	Honors Quantitative Analysis with Lab	4
CHM 3291	Honors Chemistry of Medicinal and Natural Products	3
CHM 3400	Honors Introduction to Physical Chemistry	3
CHM 4135, 4135L	Honors Instrumental Methods of Analysis with Lab	4

CHM 4231	Honors Spectroscopy	3
CHM 4473	Honors Quantum Chemistry	3
CHM 3609, CHM 3609L	Honors Inorganic Chemistry with Lab	4

Special Topics in Biology (BSC 4930) or Chemistry (CHM 4933) may be used to fulfill the Biology and Chemistry electives upon approval of the Biological Chemistry advisory board.

CONCENTRATION IN MARINE BIOLOGY

Course #	Course Name	Credits
BSC 1010, 1010L	Honors Biological Principles with Lab	4
BSC 1011, 1011L	Honors Biodiversity with Lab	4
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
MAC 2311	Honors Calculus I	4
STA 2023	Honors Introductory Statistics	3
PHY 2048, 2048L	General Physics I with Lab	5
PCB 3063	Honors Genetics	4
OCB 3012, 3012L	Honors Marine Biology and Oceanography with Lab	4
OBE 4008	Marine Science (HBOI)	4
OCB 4032, 4032L	Marine Biodiversity and Lab (HBOI)	4
OCB 4633, 4633L	Marine Ecology and Lab (HBOI)	4
	Marine Biology Electives	15
BSC 4915	Honors Research in Biology	3
BSC 4970	Honors Thesis in Biology	3
Total Credits		**69**

MARINE BIOLOGY ELECTIVES

Course #	Course Name	Credits
BCH 3033, 3033L	Honors Biochemistry with Lab	4
OCE 2001	Honors Oceanography	3
BSC 1933	Ecology of Atlantic Shores	3
BSC 4903	Ocean Discovery (HBOI)	2
EVR 4420	Honors Marine Conservation	3
BSC 6936	Sea Turtle Biology (HBOI)	3
BSC 6936	Natural History Indian River Lagoon (HBOI)	3
IDS 3932	Honors History of Life	3
EVS 4414	Honors Conservation Biology	3
PCB 4673	Honors Evolution	3
ZOO 2303, 2303L	Honors Vertebrate Zoology with Lab	4
ZOO 4556	Honors Coral Reef Ecology	3

Electives:

Several of the above courses are offered at FAU's Harbor Branch Oceanographic Institution (HBOI). Special Topics courses and other FAU marine science courses may be used with the prior approval of the concentration advisor.

CONCENTRATION IN NEUROSCIENCE-
TRACK ONE: CELLULAR NEUROSCIENCE

NEURO CORE

Course #	Course Name	Credits
PSY1012	Honors General Psychology	3
BSC1010	Honors Biological Principles	3
BSC1010L	Honors Biological Principles Lab	1
BSC4930	Honors Human Morphology 1	3
PCB 3703L	Honors Morphology and Function 1 Lab	1
CHM2045	Honors General Chemistry 1	3
CHM2045L	Honors General Chemistry 1 Lab	1
CHM2046	Honors General Chemistry 2	3
CHM2046L	Honors General Chemistry 2 Lab	1
STA2023	Honors Statistics	3
BSC4970	Honors Thesis	6

ADDITIONAL REQUIRED COURSES FOR TRACK ONE

Course #	Course Name	Credits
MAC2311	Honors Calculus 1	4
CHM2204	Honors Organic Chemistry 1	3
CHM2204L	Honors Organic Chemistry 1 Lab	1
CHM2205	Honors Organic Chemistry 2	3
CHM2205L	Honors Organic Chemistry 2 Lab	1
PHY2048	Honors General Physics 1	4
PHY2048L	Honors General Physics 1 Lab	1
PHY2049	Honors General Physics 2	4
PHY2049L	Honors General Physics 2 Lab	1
BCH3033	Honors Biochemistry	3
PCB3063	Honors Genetics	4
PCB4102	Honors Cell Biology	4
Cellular Neuroscience Electives		9
Total Credits		**70**

CELLULAR NEUROSCIENCE ELECTIVES (Select 3)

Course #	Course Name	Credits
PCB4843C	Practical Cell Neuroscience	3
PSB3340	Honors Behavioral Neuroscience	3
PSB 3441	Honors Drugs and Behavior (Psychopharmacology)	3
PCB 4842	Cellular Neuroscience	3

Other electives and/or Special Topics courses may be approved by the student's neuroscience faculty advisor.

CONCENTRATION IN NEUROSCIENCE-
TRACK TWO: NEUROSCIENCE, COGNITION, AND BEHAVIOR

NEURO CORE

Course #	Course Name	Credits
PSY1012	Honors General Psychology	3
BSC1010	Honors Biological Principles	3
BSC1010L	Honors Biological Principles Lab	1
BSCXXXX*	Honors Human Morphology I	3
PCB 3703L	Honors Human Morphology and Function I Lab	1
CHM2045	Honors General Chemistry 1	3
CHM2045L	Honors General Chemistry 1 Lab	1
CHM2046	Honors General Chemistry 2	3
CHM2046L	Honors General Chemistry 2 Lab	1
STA2023	Honors Statistics	3
PSY4971	Honors Thesis	6

** A number is currently being assigned to this course. Previously students took it under a Special Topics designation.*

ADDITIONAL REQUIRED COURSES FOR TRACK TWO

Course #	Course Name	Credits
PSB3340	Honors Behavioral Neuroscience	3
CLP4144	Honors Abnormal Psychology	3
EXP3604	Honors Cognition	3
PSY3213	Honors Research Methods in Psychology	3
PSY3213L	Honors Research Methods in Psychology Lab	1
PSY4933	Honors Advanced Writing in Psychology	1
PSB 3441	Honors Drugs and Behavior (Psychopharmacology)	3
Psychology Electives		6
Neuroscience Electives		9-11
Total Credits		**60-62**

NEUROSCIENCE ELECTIVES (Select 3)

Course #	Course Name	Credits
PCB3063	Honors Genetics	4
PCB4102	Honors Cell Biology	4
PCB4843C	Practical Cell Neuroscience	3
PCB 4842	Cellular Neuroscience	3

Other electives and/or Special Topics courses may be approved by the student's neuroscience faculty advisor.

PSYCHOLOGY ELECTIVES (Select 2)

Course #	Course Name	Credits
CLP4314	Honors Health Psychology	3
SOP3004	Honors Principles of Social Psychology	3
DEP3053	Honors Psychology of Human Development	3
PPE3033	Honors Personality	3
PSY4604	Honors History and Systems of Psychology	3

Other electives and/or Special Topics courses may be approved by the student's neuroscience faculty advisor.

CONCENTRATION IN BIOLOGY

Course #	Course Name	Credits
BSC 1010, 1010L	Honors Biological Principles with Lab	4
BSC 1011, 1011L	Honors Biodiversity with Lab	4
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
MAC 2311	Honors Calculus I with Analytic Geometry	4
STA 2023	Honors Introductory Statistics	3
PHY 2048, 2048L	Honors General Physics I with Lab	5
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
BCH 3033	Honors Biochemistry	3
PCB 3063	Honors Genetics	4
	Biology Electives	18
BSC 4915	Honors Research in Biology	3
BSC 4970	Honors Thesis in Biology	3
Total Credits		**69**

BIOLOGY ELECTIVES

Course #	Course Name	Credits
BOT 3501, 3501L	Honors Introduction to Plant Biology with Lab	4
BSC 4905	Honors Directed Independent Study in Biology	1-3
BSC 4402L	Honors Fluorescence Microscopy Lab	1
BSC 4403L	Honors Biotechnology Lab	2
BSC 2084, 2084L	Honors Essentials of Human Anatomy and Physiology with Lab	4
PCB 3703L	Human Morphology and Function I Lab	1
PCB 3704L	Human Morphology and Function II Lab	1
PCB 4673	Honors Evolution	3
PCB 3352	Honors Issues in Human Ecology	3
PCB 4414	Honors Behavioral Ecology	4
PCB 3351, 3351L	Honors Tropical Rainforests with Lab	6
PCB 3411	Honors Animal Behavior	3
PCB 4253	Honors Developmental Biology	3
PCB 4324	Honors Cancer Biology	3
PCB 4043	Honors Principles of Ecology	3
OCB 3012, 3012L	Honors Marine Biology and Oceanography with Lab	4
ZOO 2303, 2303L	Honors Vertebrate Zoology with Lab	4
ZOO 4556	Honors Coral Reef Ecology	3
MCB 3023, 3023L	Honors Microbiology with Lab	4

PCB 4102	Honors Cell Biology	4
PCB 4024	Honors Molecular Cell Biology	3
BSC 1933	Honors Freshman Seminar	3
EVS 4414	Honors Conservation Biology	3

Electives:

Special Topics courses and other FAU courses may be approved by the concentration advisor.

CONCENTRATION IN CHEMISTRY

Course #	Course Name	Credits
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
CHM 3400	Honors Introduction to Physical Chemistry	3
CHM 3609, 3609L	Honors Inorganic Chemistry with Lab	4
CHM 4135, 4135L	Honors Instrumental Methods of Analysis with Lab	4
MAC 2311	Honors Calculus I	4
MAC 2312	Honors Calculus II	4
PHY 2048, 2048L	Honors General Physics I with Lab	5
PHY 2049, 2049L	Honors General Physics II with Lab	5
	Chemistry Elective (one elective must include a lab)	10-11
CHM 4912 or CHM 4914	Honors Research in Chemistry or Honors Research and Writing in Chemistry	4
CHM 4970	Honors Thesis in Chemistry	3
	Total Credits	62-63

CHEMISTRY ELECTIVES

Course #	Course Name	Credits
BCH 3033, 3033L	Honors Biochemistry with Lab	4
CHM 3084	Honors Environmental Chemistry	3
CHM 3121, 3121L	Honors Quantitative Analysis with Lab	4
CHM 3292	Honors Chemistry of Medicinal and Natural Products	3
CHM 4231	Honors Spectroscopy	3
CHM 4473	Honors Quantum Chemistry	3
CHM 4905	Honors Directed Independent Study in Chemistry	1-4
CHM 4933	Honors Special Topics in Chemistry	1-4

Electives:

Special Topics courses and other FAU courses may be approved by the concentration advisor.

CONCENTRATION IN PHYSICS

MINIMAL REQUIREMENTS

Course #	Course Name	Credits
PHY 2048, 2048L	Honors General Physics I with Lab	5
PHY 2049, 2049L	Honors General Physics II with Lab	5
	Physics Electives	15
	Mathematics Electives	3
PHY 4905	Honors Directed Independent Thesis	
Research	3-6	
PHY 4970	Honors Thesis in Physics	3
	Total minimal concentration	34-37

ADDITIONAL REQUIREMENTS

BSC 1010, 1010L	Honors Biological Principles with Lab	4
BSC 1011, 1011L	Honors Biodiversity with Lab	4
CHM 2045, 2045L	Honors General Chemistry I wtih Lab	4
CHM 2046, 2046L	Honors General Chemistry II wtih Lab	4
CHM 2210, 2210L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2211L	Honors Organic Chemistry II with Lab	4
BCH 3033	Honors Biochemistry	4
	Total Credits (including minimal concentration)	61-64

PHYSICS ELECTIVES

Course #	Course Name	Credits
CHM 3400*	Honors Introduction to Physical Chemistry	3
CHM 4473**	Honors Quantum Chemistry	3
PHY 3101	Honors Introduction to Modern Physics	3
PHY 3221	Honors Intermediate Mechanics	4
PHY 3513*	Honors Thermal Physics	3
PHY 4320	Honors Electricity and Magnetism	4
PHY 4523	Honors Statistical Physics	3
PHY 4602**	Honors Introductory Quantum Physics	3
PHY 4905	Honors Directed Independent Study in Physics	3
PHY 4936	Honors Special Topics in Physics (may be repeated)	1-4
PHZ 3601	Honors Relativity	3

* *Either CHM 3400 or PHY 3513 can be used to fulfill the physics elective, but not both.*

** *Either CHM 4473 or PHY 4602 can be used to fulfill the physics elective, but not both.*

MATHEMATICS ELECTIVES

ISC 4930	Honors Special Topics in Science and Mathematics	1-4
MAC 2313	Honors Calculus with Analytic Geometry III	4
MAP 2302	Honors Differential Equations	3
MAS 2103	Honors Matrix Theory	3
MAT 4930	Honors Special Topics in Mathematics (may be repeated)	1-4
COP 2000	Honors Foundations of Programming	3
COP 2220	Honors Introduction to Programming in C	3
COP 2930	Honors Topics in Computer Programming	3
COP 3012	Honors Advanced Programming	3
COP 3229	Honors Self-paced C++ Programming	1
COP 3254	Honors Self-paced Java Programming	1
COT 4930	Honors Topics in Computer Science	3

Minimal Requirements:

These minimal requirements are not generally considered sufficient preparation for admission into graduate study in physics. Rather, they are intended for students who are interested in pursuing interdisciplinary tracks in physics. Examples include emphasis on applied mathematics, philosophy of science, science and culture, and scientific writing. Specific paths should be determined in consultation with advisors from physics and appropriate disciplines. The senior thesis may reflect such interdisciplinary study, but must include significant concepts or techniques from the field of physics. Students who pursue interdisciplinary tracks in physics should arrange for a thesis advisory committee that represents these interests. In addition to the requirements for a minor in physics, students will earn a major concentration in physics by completing 6-9 credit hours of research toward and writing of a senior thesis in physics. Students are reminded they need 45 upper-level (3000- or 4000-level) credits to graduate.

Graduate School Track:

The minimal concentration listed above is not sufficient for admission to graduate study in physics. Students who wish to go to graduate school should take additional credits in physics and mathematics, including specific courses to be determined in consultation with an advisor. All students are encouraged to take advanced physics courses from the main campus in Boca Raton.

Pre-Professional Track:

A specific example of an interdisciplinary physics concentration, the pre-professional physics track is intended for students who are interested in pursuing a career in medicine or possibly science education. Because of the nature of requirements for admission to medical school, there is very little room for non-science elective courses in this track. Students who wish to pursue a career in science education will most likely need additional education courses taken elsewhere. Students should consult with their thesis advisors for guidance in completing a track that meets their needs.

CONCENTRATION IN THE ENVIRONMENTAL SCIENCE TRACK WITHIN ENVIROMENTAL STUDIES

REQUIRED COURSES

Course #	Course Name	Credits
EVR 2017	Honors Environment and Society	3
EVR 3352, or	Honors Issues in Human Ecology, or	
PCB 4043	Honors Principles of Ecology	3
PHI 3682	Honors Environmental Philosophy	3
BSC 1011, 1011L	Honors Biodiversity, with Lab	4
ECO 2023	Honors Microeconomic Principles	3
ECP 4302	Honors Environmental Economics	2
CHM 2045, 2045L	Honors General Chemistry I, with Lab	4
STA 2023	Honors Introductory Statistics	3
GEO 3144C	Honors Geographic Information Systems	3
EVR 4970	Honors Thesis in Environmental Studies	6
Total Credits (gateway courses)		**35**

ADDITIONAL ENVIRONMENTAL SCIENCE TRACK COURSES

Course #	Course Name	Credits
HM 2046, 2046L	Honors General Chemistry II, with Lab	4
CHM 2210, 2210L	Honors Organic Chemistry I, with Lab*	4
	Science Electives from 2 or more disciplines**	12-16
	Humanities / Social Science Elective	3
Total Credits (science track)		**23-27**
Total Credits (incl. gateway courses)		**55-59**

* *Students are strongly encouraged to take CHM 2211 / 2211L, Organic Chemistry II with Lab.*

** *BSC 1005 & 1005L may not be counted as a science elective.*

SCIENCE ELECTIVES

Course #	Course Name	Credits
BCH 3033, 3033L	Honors Biochemistry with Lab	4
BOT 3501, 3501L	Honors Intro. to Plant Biology with Lab	4
BSC 1010, 1010L	Honors Biological Principles	4
BSC 1933	Honors Freshman Seminar in Biology	3
CHM 1025C	Honors Contemporary Chemical Issues	3
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
CHM 2210, 2210L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2211L	Honors Organic Chemistry II with Lab	4
CHM 2214, 2214L	Honors Introduction to Organic Spectroscopy with Lab	2

CHM 3080	Honors Environmental Chemistry	3
CHM 3609	Honors Inorganic Chemistry with Lab	4
CHM 3120	Honors Quantitative Analysis	4
CHM 4130	Honors Instrumental Methods of Analysis with Lab	3
EVR 2001	Honors Intro. to Environmental Science	3
EVR 4420	Honors Marine Conservation	3
EVS 4414	Honors Conservation Biology	3
GEO 4930	Honors Special Topics in Geography*	3
OCB 3012, 3012L	Honors Marine Biology and Oceanography with Lab	4
OCB 2000	Honors Survey of Marine Biology	3
OCE 2001	Honors Introduction to Oceanography	3
PCB 3351, 3351L	Honors Tropical Rainforest with Lab	6
PCB 3411	Honors Animal Behavior	3
PCB 4043	Honors Principles of Ecology	3
PCB 4414	Honors Behavioral Ecology	4
PCB 4673	Honors Evolution	3
PHY 2048, 2048L	Honors General Physics I with Lab	5
PHY 2049, 2049L	Honors General Physics II with Lab	5
PHY 2020	Honors Conceptual Physics	3
PSC 2514C	Honors Energy and the Environment	4
ZOO 2303, 2303L	Honors Vertebrate Zoology with Lab	4

HUMANITIES AND SOCIAL SCIENCE ELECTIVES

Course #	**Course Name**	**Credits**
AMH 3630	Honors American Environmental History	3
AML 3452	Honors Environmental Imagination in American Literature and Culture	3
ECO 2013	Honors Macroeconomic Principles	3
ECS 3013	Honors International Economic Development	3
ENC 3362	Honors Environmental Writing and Rhetoric	3
EUH 3618	Honors Sense of Place Across Time	3
EVR 1933*	Honors Freshman Seminar in Environmental Studies	3
EVR 4930*	Honors Special Topics in Environmental Studies	3
EVS 3403	Honors Global Environmental Issues	3
GEO 2370	Honors Conservation and Use of Natural Resources	3
GEO 3402	Honors Human Geography	3
GEO 4930 +	Honors Special Topics in Geography	3
IDS 3932	Honors Ethics in Business, Government and Society	3
PAD 3003 #	Honors Public Management and Administration	3

PAD 3104 #	Organizational Behavior and Administrative Communication	3
PAD 4332 #	Managing for Excellence in Public and Non-Profit Sectors	3
PAD 4320 #	Program Evaluation in Public Management	3
PAD 4604 #	Administrative Process and Ethics	3
PAD 4806 #	State and Local Government Administration	3
PHI 3644	Honors Obligations	3
POS 3691	Honors Law and American Society	3
POS 4603	Honors Constitutional Law	3
POS 4931 #	Law and Government Agencies	3
PUP 4008 #	Policy Analysis	3
PUP 4212	Honors Environmental Conflict	3
SOP 4716	Honors Environmental Psychology	3
SYD 4792	Honors Race, Gender, Class, Sexuality and Science	3
SYP 4803	Honors Gender and Technology	3

* *Can count multiple times given different topics.*

\+ *Human geography topics may count for social science elective credit.*

\# *Non-Honors College course, frequently taught on the Jupiter Campus.*

Science Electives:

Courses on this list may be used to fill the science electives section of both the Environmental Science and Environmental Studies tracks (except as indicated above). Please be aware that some courses on this list have prerequisites. Students are reminded that they need 45 upper-level (3000 or 4000-level) credits to graduate.

Humanities and Social Science Electives:

Courses on this list may be used to fill the social science and humanities electives section of both the Environmental Science and Environmental Studies tracks. Please be aware that some courses on this list have prerequisites.

CONCENTRATION IN PSYCHOLOGY

SOCIAL SCIENCE FOUNDATION COURSES

Course #	Course Name	Credits
PSY 1012	Honors General Psychology	3

SOCIAL SCIENCE ELECTIVES

One or more of the following courses or equivalent courses as approved by the concentration advisory board: *(3)*

Course #	Course Name	Credits
AMH 4932	Honors Violence in America	
ANT 2410	Honors Culture and Society	
ECO 2023	Honors Microeconomic Principles	
EUH 3618	Honors Sense of Place Across Time	
GEO 3402	Honors Human Geography	
POS 2692	Honors Punishment	
POS 3691	Honors Law and American Society	
SYG 1000	Honors Introduction to Sociology	
WST 3015	Honors Intro to Women's Studies	

BIOLOGY AND NEUROSCIENCE FOUNDATION COURSES

Course #	Course Name	Credits
BSC 1010, 1010L	Honors Biological Principles and Lab	4

BIOLOGY AND NEUROSCIENCE ELECTIVES

One or more of the following, or equivalent course as agreed to by the concentration advisory board: *(3-4)*

Course #	Course Name	Credits
PSB 3340	Honors Behavioral Neuroscience	
PSB 3344	Honors Drugs and Behavior	
BSC 2084	Honors Essentials of Anatomy and Physiology	
BSC 4930	Honors Human Morphology and Function 1	
PCB 3063	Honors Genetics	

MATHEMATICS FOUNDATION COURSES

Course #	Course Name	Credits
PSY 3234	Honors Experimental Design and Statistical Inference, or	3
STA 2023	Honors Introductory Statistics	3

MATHEMATICS ELECTIVES

One or more of the following courses or equivalent courses as approved by the

concentration advisory board: (3-4)

Course #	Course Name
STA 3164	Honors Intermediate Statistics
PSY 4302, 4302L	Honors Psychometrics and Lab
MAC 2311	Honors Calculus

PSYCHOLOGY FOUNDATION COURSES

Course #	Course Name	Credits
PSY 4604	Honors History and Systems of Psychology	3
PSY 3213, 3213L	Honors Research Methods in Psychology and Lab	4
	Five Psychology Electives	15
PSY 4933	Honors Advanced Writing in Psychology	1
PSY 4971	Honors Thesis in Psychology and Behavioral Science	5-8
Total Credits		**47-52**

PSYCHOLOGY ELECTIVES: GROUP A
NATURAL SCIENCE APPROACH TO PSYCHOLOGY

Course #	Course Name	Credits
PSB 3344	Honors Drugs and Behavior	3
EXP 3604	Honors Cognition	3
EXP 4631	Honors Thinking and Decision-Making	3
EXP 3202	Honors Sensation and Perception	3
PCB 3411	Honors Animal Behavior	3
IDS 4933	Honors How and Why We Age	3
PSB 3340	Honors Behavioral Neuroscience	3
PSY 4930	Honors Evolutionary Psychology	3
DEP 4463C	Honors Lab in Cognitive Aging	3
PSY 4930	Honors Psychology of Aging	3

Other courses in psychology primarily based in biological and natural sciences may be approved by the concentration advisory board.

PSYCHOLOGY ELECTIVES: GROUP B
SOCIAL SCIENCE APPROACH TO PSYCHOLOGY

Course #	Course Name	Credits
PPE 3003	Honors Personality	3
SOP 3004	Honors Principles of Social Psychology	3
DEP 3053	Honors Psychology of Human Development	3
DEP 4095	Honors Personality and Social Development	3
PSY 4302, 4302L	Honors Psychometrics and Psychological Testing with Lab	4
CLP 4144	Honors Psychopathology	

	(Abnormal Psychology)	3
CLP 4310	Honors Health Psychology	3
SOP 3742	Honors Psychology of Women	3
POS 4206	Honors Political Psychology	3
PSY 4930	Honors Psychotherapy Systems	3

Other courses in psychology primarily based in the social sciences.

Foundation Courses:

Psychology concentrators are required to take six foundation courses, two in social sciences, two in biological sciences, and two in mathematics. Students must earn at least a B- in PSY 1012 General Psychology. Courses that are used to fulfill the foundation requirements for the Psychology concentration cannot simultaneously be used to fulfill the Psychology Electives requirement.

Psychology Electives:

Concentrators must take five intermediate and advanced electives, at least two of which must be drawn from Group A and two from Group B. Interdisciplinary courses (prefixes IDS, ISS, etc.) may be substituted for coursework in psychology at the discretion of the advisor. Students interested in pursuing graduate study in psychology should work closely with their academic advisors to insure a sufficient preparation in each of the major academic sub-disciplines of psychology (i.e., Biological, Clinical, Cognitive, Developmental, Personality, and Social Psychologies). Students are reminded they need 45 upper-level (3000 or 4000-level) credits to graduate. At least 50 percent of upper level Psychology courses must be taken at the Honors College. Courses used to fulfill the foundation requirements in Psychology may not also be used as Psychology electives.