

Program: Marine Science **CIP:** 03.0205
Offered At: FGCU **Track:** 1/2
Program Length: 120 Cr. Hrs.

LOWER LEVEL COURSES

	Cr Hours
MACX311 or STAX122	3-4
& STAX023	3
& CHMX045C Or CHMX045/X045L	4
& CHMX046C Or CHMX046/X046L	4
& <u>GLYX010C or GLYX010/X010L</u> Or GLYX000C Or GLYX0000/X0000L	4
& PHYX053C Or PHYX053/X053L	5
& BSCX010C Or BSCX010/X010L	4
& BSCX011C Or BSCX011/X011L	4

Review of Common Prerequisite Completion within 60 hours

60	Credit Hours for AA Degree
-	29 Minus Number of Proposed Common Prerequisite Credit Hours
+	6 Plus Number of Common Prerequisites in General Education Core
35	Equals Number Credit Hours to complete the 30 remaining hours of General Education



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Dr. Greg Tolley	Email: gtolley@fgcu.edu Phone: (239) 590-7206
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges): Lucero Carvajal Dr. Cathy Duff	<p style="text-align: center; font-size: 2em; font-weight: bold;">X</p> <hr/> First Name, Last Name Title: Email: lcavajal@fgcu.edu cduff@fgcu.edu Phone: (239) 745-4368 or (239) 590-7043
Requesting institution:	Florida Gulf Coast University

II. Program Information

Title of Degree Program: Marine Science (B.S.)	CIP Code: 03.0205	Track (if appropriate): 1/2
Does this proposal align with a current track?	Yes: X	No:
Is this program approved for limited access?	No	
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): No		

III. Proposed Changes – Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary).

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
MACX311 or STAX122	Calculus I or Social Science Statistics	4 or 3
STAX023	Statistical Methods	3
CHMX045C or (CHMX045 and X045L)	General Chem w/Lab I	4
CHMX046C or (CHMX046 and X046L)	General Chem w/Lab II	4
GLYX000C or (GLYX000 and X000L)	Physical Geology	4
PHYX053C or (PHYX053 and X053L)	College Physics w/Lab I	4
BSCX010C or (BSCX010 and X010L)	Gen'l Biology w/Lab I	4
BSCX011C or (BSCX011 and X011L)	Gen'l Biology w/Lab II	4
Current Approved Common Prerequisite Credit Hours		31

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
GLY X010C or (GLY X010 and GLY X010L)	4	>10	8	FGCU has been offering Physical Geology as GLY X000C. We are



Common Prerequisite Proposal

				deleting this course and replacing it with GLY X010C. We would like to continue listing GLY X000C as an acceptable substitution.
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- C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.
N/A	N/A

If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses: N/A

- D. Please explain how any additions or deletions of common prerequisites affect programmatic accreditation issues: N/A

IV. Review of Completion within 60 semester hours.

- A. Course Prerequisites, if known, for Common Prerequisite: No changes

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
Number of College Level Prerequisites for Common Prerequisite Courses		

- B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 31	Minus Number of Proposed Common Prerequisite Credit Hours
- 0	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+ 7	Plus Number of Common Prerequisites in General Education Core
36	Equals Number Credit Hours to complete remainder of General Education

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

V. Supporting Documentation

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Common Prerequisite Proposal



Date of Submission to the Board of Governors or the Division of Florida Colleges: 3/25/2019_



Marine Science (B.S.)

College of Arts and Sciences

Department of Marine and Ecological Sciences

<https://www2.fgcu.edu/CAS/MarineScience/index.asp>

(239) 590-7196

2018-2019 Catalog Year

The Marine Science B.S. integrates traditional scientific disciplines by focusing them on the study of the world's oceans and coastal waters. The program combines aspects of biology, chemistry, geology, mathematics, and physics to provide students with a strong interdisciplinary education in the natural sciences and it applies a systems approach to identifying and understanding the roles the oceans play in the functioning of our planet. Students also benefit from field- and laboratory-based learning experiences at FGCU's Vester Marine Field Station, which provides water access to Estero Bay and the Gulf of Mexico.

Program Progression and Additional Graduation Requirements

- Attend an orientation session.
- Sign an Advising Agreement document.

In addition to the program requirements, students must:

- Complete a minimum of 120 credits.
- Complete a minimum of 48 of the 120 credits at the upper division (3000 - 4999) level.
- Earn a cumulative GPA of 2.0 for all coursework attempted at FGCU.
- Satisfy the College-Level Skills and foreign language entrance requirements.
- Satisfy the Service Learning requirement. (See www.fgcu.edu/connect).
- Satisfy the residency requirement: thirty of the last sixty credits must be completed at FGCU.
- Complete the summer course enrollment requirement.
- Submit an Application for Graduation by the deadline listed in the FGCU Academic Calendar.

Program Requirements

1. **FGCU General Education Program** (https://www2.fgcu.edu/general_education/)
To prevent or minimize excess hours, select general education courses that satisfy common prerequisite requirements for your intended major.

2. Common Prerequisites

For this major, common prerequisite courses with an asterisk (*) require prior knowledge and skills demonstrated through degree acceleration programs (e.g., the College Board's Advanced Placement Program [AP], International Baccalaureate Program [IB], College-Level Examination Program [CLEP], Advanced International Certificate of Education Program [AICE]); dual enrollment; placement exam; or college coursework.

FGCU Course: BSC 1010C Gen'l Biology w/Lab I (4) or {BSC 1010 General Biology I (3) and BSC 1010L General Biology I Laboratory (1)} Minimum grade of C
Acceptable Substitute: BSCX010C

FGCU Course: BSC 1011 General Biology II (3) and BSC 1011L General Biology II Laboratory (1) Minimum grade of C
Acceptable Substitute: BSCX011C

FGCU Course: *CHM 1045 General Chemistry I (3) and CHM 1045L General Chemistry I Lab (1) Minimum grade of C
Acceptable Substitute: CHMX045C
[Prerequisites of MAT 1033 minimum grade of C then MAC 1105 minimum grade of C; or relevant accelerated credit; or placement exam]

FGCU Course: CHM 1046 General Chemistry II (3) and CHM 1046L General Chemistry II Lab (1) Minimum grade of C
Acceptable Substitute: CHMX046C

FGCU Course: ~~GLY 1000C Physical Geology~~ GLY 1010C Physical Geology (4)
Minimum grade of C
Acceptable Course: GLYX000C or (GLY X000 and GLY X000L)
or GLY X010C or (GLY X010 and GLY X010L)

FGCU Course: *MAC 2311 Calculus I (4) or *STA 2122 Social Science Statistics (3) or an advanced mathematics course. Minimum grade of C
Acceptable Substitute: MACX311 or STAX122 or an advanced mathematics course
[For MAC 2311 Prerequisites of MAT 1033 minimum grade of C then MAC 1105 minimum grade of C then MAC 1147 minimum grade of C; or relevant accelerated credit; or placement exam]
[For STA 2122 Prerequisites of MAT 1033 minimum grade of C then STA 2023 and PSY 2012 minimum grades of C; or relevant accelerated credit; or placement exam]

FGCU Course: *PHY 2053C College Physics I w/Lab (4) Minimum grade of C
Acceptable Substitute: PHYX053C
[Prerequisites of MAT 1033 minimum grade of C then MAC 1105 minimum grade of C then MAC 1147 minimum grade of C; or relevant accelerated credit; or placement exam]

FGCU Course: *STA 2023 Statistical Methods (3) Minimum grade of C
Acceptable Substitute: STAX023

[Prerequisites of MAT 1033 minimum grade of C; or relevant accelerated credit; or placement exam]

3. Required Courses in the Major (29 credits)

A minimum grade of C is required in each course.

CHM 1084C Environmental Chemistry (4)
GLY 4700C Coastal & Watershed Geology (3)
IDS 3300 Foundations of CivicEngagement (3)
ISC 3120C Scientific Process (3)
OCB 4633C Marine Ecology (3)
OCB 4936 Senior Seminar Marine Science (1)
OCC 4002C Marine Chemistry (3)
OCE 3008C Oceanography (3)
OCP 3002C Physical Oceanography (3)
PCB 3463C Marine Eco Mon & Res Method (3)

4. Restricted Electives in the Major (20-21 credits)

A minimum grade of C is required in each course.

Students are asked to select their electives equitably between the physical and biological sciences to best ensure they are well prepared as interdisciplinary marine scientists.

Select one of the following:

ISC 4910 Sr. Proj Rsch Intrdisc Nat Sci (3)
ISC 4940 Internship in Interdis Nat Sci (3)

Select 2 credits in any combination from the following:

BSC 4933* Current Topics in Biology (1)
EVR 4920* Current Topics Environ Studies (1)
ISC 4930* Current Topics in Intd Nat Scienc (1)

*This course/prefix number can be repeated as long as the topic is different.

Select 6 credits from the following Ecological/Biological courses:

BSC 3303 Biogeography (3)
EVR 4024C Microbial Ecology (3)
EVS 4814C Environmental Toxicology (3)
OCB 3108C Field Studies Marine Science (4)
OCB 4930 Special Topics: Marine Biology (3)
PCB 3043C General Ecology (3)
PCB 4303C Limnology (3)
PCB 4442C Wetland Ecology (3)
ZOO 3205C Invertebrate Zoology (3)
ZOO 4454C Ichthyology (3)
ZOO 4894C Fisheries Management (3)

Select 6 credits from the following Physical/Statistical/Geological courses:

GLY 3420C Tectonics and Marine Geology (4)

GLY 3603C Geobiology (3)

GLY 4071C Paleoclimatology (3)

GLY 4074C Meteorology & Climatology (3)

GLY 4244C Biogeochemistry (3)

GLY 4574C Sediment Dynamics (3)

GLY 4952 Carbonate Deposition Environs (3)

OCE 4930 Special Topics: Oceanography (3)

OCP 4284C Coastal Hydrodynamics (3)

PAD 4343C Coastal Zone Management (3)

STA 3163 Applied Statistics (3)

Select 3 credits from the following:

BCH, BOT, BSC, CHM, EVR, EVS, GLY, MAP, OCB, OCC, OCE, OCG, OCP, PCB,
PHY, ZOO — 3000-4999 (3)

5. University Requirements (3 credits)

IDS 3920 University Colloquium (3)

6. Additional Electives - as needed to reach total credits required for the degree

TOTAL CREDITS REQUIRED: 120

The information contained in this catalog excerpt is intended for informational purposes only. Every effort is made to provide this information as accurately as possible at the time of publication; however, the university reserves the right to revise any section or part without notice or obligation.

Printed on: 3/25/2019.

Program:	<u>Architecture</u>	CIP:	<u>04.0201</u>
		Track:	<u>1</u>
Offered At:	<u>UF</u>	Program Length:	<u>120 Cr. Hrs.</u>
	<u>FAMU</u>		<u>150</u>
	<u>FAU</u>		<u>159</u>
	<u>UCF</u>		<u>120</u>

LOWER LEVEL COURSES

	Cr Hours	
ARCX702	3	
& ARCX301	4	
& ARCX302	4	
& ARCX701	3	
& ARCX201	3	
& ARCX303	5	
& ARCX304	5	
& ARCX461 or ARCX470 or ARCX462	4	
& ARCX501 or ARCX580 (1) <u>or ARCX503</u>	3	Architectural Structures
& MACX233 or MACX311 <u>or MACX114</u>	3	
<u>Or MACX140</u>		
& ARCX180 or ARCX057 or ARCX058	3	
& PHYX053	3	

(1) ARCX580, Structures I, is a common prerequisite for all institutions except UF.

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 43	Minus Number of Proposed Common Prerequisite Credit Hours
+ 6	Plus Number of Common Prerequisites in General Education Core
23	Equals Number Credit Hours to complete the 30 remaining hours of General Education

Program: Cybersecurity

CIP: 11.1003

Track: 3/3

Offered At: USF

Program Length: 120 Cr. Hrs.

LOWER LEVEL COURSES

Cr Hours

- PSYX012 3 Intro to Psychology
- & ECOX013 3 Macroeconomics
- & STAX023 3 Introductory Statistics I
- Or STAX122
- & MACX147 3 Pre-calculus Algebra & Trig
- Or MACX140 & MACX114
- & PHY1000 – PHY2999 3 Any Physics Course
- & MADX104 3 Discrete Math
- & CGSX540 3 Intro to Databases for Information Technology
- Or CGSX540C or CGSX545
- Or COPX710 or COPX721
- & COPX512 3 Programming Fundamentals for Information Technology
- or COPX210 or COPX270
- or COPX006 or COPX272(C) or COPX500
- or COPX220 or COPX360 or COPX800
- & COPX513 3 Object-Oriented Programming for Information Technology
- or COPX334 or COPX551(C) or COPX000
- or COPX224 or COPX250

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 27	Minus Number of Proposed Common Prerequisite Credit Hours
+ 9	Plus Number of Common Prerequisites in General Education Core
42	Equals Number Credit Hours to complete the 27 remaining hours of General Education

Application to Approve Common Prerequisites for New Degree

Degree Program Name: Cybersecurity CIP Code: 11.1003

Anticipated Degree Total Hours: 120 credit hours

Are other degree programs under this name currently found in the Common Prerequisite Manual (CPM)? Yes No

If yes, under what CIP code? 11.1003

Institution Requesting Modification: University of South Florida

Name of Contact Person: Cynthia Brown Hernandez

Email Address: cynthiab@usf.edu Phone Number: 813-974-1791

Please list the current common prerequisites for any similar program (may be in a different CIP but same major): Please add rows to the table as appropriate.

CIP: 11.1003 Track: 2/2

Current Primary Prerequisites	Current Alternative Course(s)
MAC X311	
MAC X312	
PHY X048C	or: PHY X048/X048L
STA X023	
XXX XXXX	Any science for science majors
COP XXXX	Introductory Program in C, C++, JAVA, or equivalent language

1. Is there a similar program? Yes No
2. If yes, are you requesting a modification of currently approved common prerequisites of a similar program within the *Common Prerequisite Manual*?
 No Yes
 Maybe - depends upon Discipline Committee recommendation

If yes or maybe above, please provide justification regarding the significant differences in your curriculum that would necessitate a new track with different common prerequisites:

Currently there are two tracks in the *Common Prerequisite Manual*. Track 1/2, which was created February 2017, is for a Cybersecurity program offered at Pensacola State College (PESC) and is applied technology oriented.

Track 2/2, which was created May 2018, is for UWF's B.S. Cybersecurity program. UWF adopted the prerequisites that overlap significantly with Computer Science programs (CIP 11.0101 [Track 1/6] and CIP 11.0701) to match the computer science focus of their curricula.

Neither of these two existing tracks suit the focus of the Cybersecurity program at USF. **We propose Track 3/3**, chosen to match the recommendation of the Cybersecurity Curricula 2017 created by the Joint Taskforce on Cybersecurity Education and the Accreditation Board for Engineering and Technology (ABET). USF's curriculum has an information technology focus instead of a computer science focus.

The USF BS Cybersecurity degree program will require students to complete the common prerequisites each with a minimum grade of C.

3. What are your proposed common prerequisites? Please provide the following information. You can find details about individual courses at the hyperlink to the Statewide Course Numbering System ([SCNS](#)). Type in the prefix and four digit number of the proposed course and select the Search button. The resulting hyperlink of the course number leads to a page with two tabs: statewide course detail and institutions. Clicking on the institutions tab will identify the institutions offering the course.

Please add rows to the table as appropriate.

Proposed Course	Title of Proposed Course	# FCS Currently Offering Course	# SUS Currently Offering Course	Justification for the addition or deletion
PSY XXXX	Any Psychology course	34+	14+	A foundational course in psychology is necessary for the student to understand and analyze this aspect of cybersecurity. USF's course: PSY 2012
ECO X013	Economic Principles (Macroeconomics)	35	13	A foundational course in economics is necessary for the student to understand and analyze this aspect of cybersecurity. USF's course: ECO 2013
STA X023 (or STA x122)	Introductory Statistics I	40+	13+	These courses establish the quantitative foundations skills that are necessary for analyzing problems in cybersecurity. USF's courses: STA 2023, MAC 1147, PHY 2020 and MAD 2104
MAC XXXX	Any Pre-calculus course	22+	12+	
PHY XXXX	Any Physics course	23+	11+	
XXX XXXX	Any Discrete Mathematics course	10+	7+	
CGS XXXX	Any Introduction to Databases course	9+	1+	These courses establish the basic programming skills that are necessary for solving problems in cybersecurity
COP XXXX	Any Computer Programming course	24+	5+	

COP XXXX	Any programming course that uses Object-Oriented Programming language (e.g. C++, C#, Java, etc.)	12+	2+	USF's courses: CGS 1540, COP 2512 and COP 2513
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Note: The above prerequisite courses overlap with prerequisites for Information Technology programs (CIP 11.0103 Track 1/4).

4. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in your upper division.

N/A

5. If your request includes courses that are offered currently only at your institution, do you have enough elective credit hour space in your upper division curriculum so that the associate in arts transfer student can complete the courses and still be held harmless in excess hours and time?

a. Yes _____ b. No _____

N/A

6. If your request includes courses that are offered only at your institution, are you willing and able to offer these courses online or during the summer so that transfer students can complete the courses without delaying admission for the fall?

a. Yes _____ b. No _____

N/A

7. Is the credit hour total for required prerequisite coursework more than 24 credit hours?

a. Yes X b. No _____

If yes, how do you anticipate students meeting the general education requirement?

- b. _____ Course(s) are anticipated to be "core" general education
c. XX Course(s) are anticipated to be part of most institutions' general education program
d. _____ Other (please specify):

Program: Engineering Physics **CIP:** 14.1201
Track: 1
Offered At: FL POLY **Program Length:** 120 Cr. Hrs.

LOWER LEVEL COURSES

Cr Hours

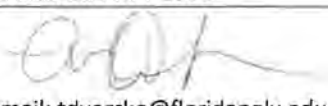
CHMX045/X045L Or CHMX045C	4	General Chemistry I with lab
& CHMX046/X046L Or CHMX046C	4	General Chemistry II with Lab
& MACX311	4	Calculus I
& MACX312	4	Calculus with Analytic Geometry II
& MACX313	4	Calculus with Analytic Geometry III
& PHYX048/X048L Or PHYX048C	4	General Physics with Calculus I and Lab
& PHYX049/X049L Or PHYX049L	4	General Physics with Calculus II and Lab

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
-	28 Minus Number of Proposed Common Prerequisite Credit Hours
+	6 Plus Number of Common Prerequisites in General Education Core
38	Equals Number Credit Hours to complete the 30 remaining hours of General Education



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Dr. Nicoleta Hickman	Email: nhickman@floridapoly.edu Phone: 863-874-8523
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges: Dr. Tom Dvorske, Vice Provost of Assessment & Instruction	 Email: tdvorske@floridapoly.edu Phone: 863-874-8544
Requesting institution:	

II. Program Information

Title of Degree Program: Engineering Physics	CIP Code: 14.1201	Track (if appropriate): Track 1 of 3 for Physics 40.0801.
Does this proposal align with a current track?	Yes: X	No:
Is this program approved for limited access?	No	
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): None at this CIP; however, the proposed common prerequisites are the same as those for Applied Physics, CIP 40.0801.		

III. Proposed Changes – Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary.

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
CHM 2045	Chemistry 1	3
CHM 2045L	Chemistry 1 Lab	1
CHM 2046	Chemistry 2	3
CHM2046L	Chemistry 2 Lab	1
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
PHY 2048	Physics 1	3
PHY 2048L	Physics 1 Lab	1
PHY 2049	Physics 2	3
PHY 2049L	Physics 2 Lab	1
Current Approved Common Prerequisite Credit Hours		28



Common Prerequisite Proposal

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
CHM 2045	3	29	12	Consistent with existing prerequisites.
CHM 2045L	1	29	12	Consistent with existing prerequisites.
CHM 2046	3	29	12	Consistent with existing prerequisites.
CHM2046L	1	29	12	Consistent with existing prerequisites.
MAC 2311	4	29	12	Consistent with existing prerequisites.
MAC 2312	4	29	12	Consistent with existing prerequisites.
MAC 2313	4	28	12	Consistent with existing prerequisites.
PHY 2048	3	29	12	Consistent with existing prerequisites.
PHY 2048L	1	29	12	Consistent with existing prerequisites.
PHY 2049	3	28	12	Consistent with existing prerequisites.
PHY 2049L	1	28	12	Consistent with existing prerequisites.

C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.
Not Applicable	

If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:

Not Applicable

D. Please explain how any additions or deletions of common prerequisites affect programmatic accreditation issues:

Content is essential for meeting content criterion for ABET-EAC accreditation for Engineering Physics, which this program will be seeking.

IV. Review of Completion within 60 semester hours.

A. Course Prerequisites, if known, for Common Prerequisite

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
MAC 2311	MAC 1147 Pre-Calculus Algebra & Trigonometry	5
Number of College Level Prerequisites for Common Prerequisite Courses		5



Common Prerequisite Proposal

B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
-28	Minus Number of Proposed Common Prerequisite Credit Hours
-5	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+	Plus Number of Common Prerequisites in General Education Core
	Equals Number Credit Hours to complete remainder of General Education

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

V. Supporting Documentation

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Date of Submission to the Board of Governors or the Division of Florida Colleges: 3/13/2019

Florida Polytechnic University: Engineering Physics

The following table reflects the standard university template for all Florida Poly programs. Each program includes a professional foundations core, general education, advanced math and science, program content core, electives (if available), concentration course, and finally a capstone sequence. This table reflects the course options for both the mathematics of medicine and biology and complete systems concentrations.

Note: EP-EM = Physics of Medicine; EP-PS = Physics of Space; EP-PES = Physics of Energy and Sustainability.

University Undergraduate Program Curriculum Template Engineering Physics						
Approved 4/7/2017 (upd. 07/06/18)						
The following program curriculum template was approved by the UCC and the Provost in spring 2017. This template exists to ensure a certain level of consistency across new and existing programs in terms of general education, foundations, program core, and capstone requirements.						
Category	Section	Course	Credits	EP-PM	EP-PS	EP-PES
I. Professional Foundations Core			8	8	8	8
		SLS 1106 - Professional Foundations (formerly First Year Experience)	1	1	1	1
		IDS 4941 - Professional Experience Internship	0	0	0	0
		IDS 1380 - Introduction to STEM	3	3	3	3
		EGN 1007C - Concepts and Methods for Engineering and Computer Science (req of Engineering and CS programs only).	1	1	1	1
		COP 2271C - Introduction to Computation and Programming (required for all programs)	3	3	3	3
		<i>All but Professional Foundations may be distributed in categories below to allow for appropriate credit hour allocations.</i>				
II. General Education			36	33	32	32
	Rules	1. Students must complete at least one ♦ course in each category to satisfy state of Florida regulation. 2. Students must take 9 hours of Humanities and Social Sciences, to be divided 6/3 between the areas. 3. Courses not taught by Florida Poly but listed in the State of Florida "common core" menu of courses can be accepted as transfer credit. 4. Transfer students who have fulfilled the general education requirements at another institution are understood to have fulfilled the requirements at Florida Poly.				
	Section A	Communication	6	6	6	6
		ENC 1101 - English Composition 1: Exp and Arg Writing (W) ♦	3	3	3	3
		ENC 2210 - Technical Writing (W)	3	3	3	3
	Section B	Humanities	3 to 6	6	6	6
		ARH 2000 - Art Appreciation ♦	3	3	3	3
		PHI 2010 - Introduction to Philosophy ♦	3			
		HUM 2020 - Introduction to the Humanities ♦	3	3	3	3

	HUM 2022 Explorations in the Humanities (Special Topics)	3			
	IDS 2144 Legal, Ethical, and Management Issues in Technology	3			
Section C	Social Science	3 to 6	3	3	3
	AMH 2010 - American History to 1877	3			
	AMH 2020 - American History Since 1877 (W) ♦ Satisfies Florida State Civics Requirement	3	3	3	3
	AMH 2930 - History: Special Topics	3			
	ECO 2013 - Principles of Macroeconomics (W) ♦	3			
	ECO 2023 - Principles of Microeconomics (W)	3			
	PSY 2012 - General Psychology (W) ♦				
Section D	Mathematics	7	7	7	7
	MAC 2311 - Analytic Geometry and Calculus 1 ♦	4	4	4	4
	MAC 2312 - Analytic Geometry and Calculus 2	4			
	MAC 2313 - Analytic Geometry and Calculus 3	4			
	STA 2023 - Statistics 1 ♦	3			
	MAD 2104 - Discrete Mathematics	3	3	3	3
	MAP 2302 - Differential Equations	3			
	MAC 1147 - Pre-calculus Algebra and Trigonometry	4			
Section E	Natural Sciences	8	8	8	8
	BSC 1010 - Biology 1 ♦	3	3	3	3
	BSC 1010L - Biology 1 Laboratory	1	1	1	1
	CHM 2045 - Chemistry 1 ♦	3	3	3	3
	CHM 2045L - Chemistry 1 Laboratory	1	1	1	1
	PHY 2048 - Physics 1 ♦	3			
	PHY 2048L - Physics 1 Laboratory	1			
	PHY 2049 - Physics 2	3			
	PHY 2049L - Physics 2 Laboratory	1			
Section F	Open Inquiry	3	3	2	2
	An additional 3 hours of general education coursework must be taken here.				
*New	CHM 2046L - Chemistry 2 Lab	1	1	1	1
*New	BSC 1011L - Biology II Lab	1	1	1	1
*New	CHM 3217L - Organic Chemistry Lab (One semester)	1	1		
II. Program Foundations / Advanced Math & Science		12	15	15	15
	1. This area may consist of additional general education courses or other foundational courses in a related field.				
	2. General education courses must be used first to fulfill General Education requirements before being applied here.				
	3. 15 credits here, plus 15 in Sections D and E (above) meet the 30 hour Basic Math/Science requirement for ABET.				
	4. Should count the following in this category: COP 2271C - Introduction to Computation and Programming (required for all programs) Credits: 3. Doing so ensures the 30 hour ABET requirement for "Basic Math/Science."				
	MAC 2312 - Anal Geo & Calc 2	4	4	4	4
	MAC 2313 - Anal Geo & Calc 3	4	4	4	4

		MAP 2302 - Differential Equation w Lab	4	4	4	4
	*New	CHM 2046 - Chemistry 2	3	3	3	3
III. Program Core		40 credits represents a minimum, depending on how many credits are included in Category II, above.	40	40	41	41
		Pre-Capstone design sequences should be included in this category- -may be listed as a subset in catalog to stand out.				
		The following may be counted in this category instead:				
		PHY 2048 - Physics 1		3	3	3
		PHY 2048L - Physics 1 Lab		1	1	1
		PHY 2049 - Physics 2		3	3	3
		PHY 2049L - Physics 2 Lab		1	1	1
	*New	PHY 3101 - Intro to Modern Physics		3	3	3
	*New	PHY 3101L - Intro to Modern Physics Lab		1	1	1
	*New	PHY 4221 - Intro to Classical Mechanics		3	3	3
	*New	PHY 4604 - Intro to Quantum Mechanics		3	3	3
	*New	PHY 4323- Intro to Electromagnetism I		3	3	3
	*New	PHY 4513 - Thermal and Statistical Physics		3	3	3
	*New	PHZ 3113 - Intro to Theoretical Physics		3	3	3
		PHY 4404 - Intro to Solid State Physics		3	3	3
	*New	PHZ 3361 - Radiation Detection and Measurement		3		
	*New	PHY 4731 - Introduction to Health Physics		3		
	*New	PHY 4151 - Computational Physics w/ Lab		4	4	4
	*New	PHY 2515L - Energy & The Environment Lab (EEL 3287L)				1
	*New	AST 3721L - Astrophysics Laboratory			1	
	*New	AST 3222 - Introduction to Astrophysics			3	
	*New	AST/PHY 4930/IDS 4204 -Advanced Topics in Astro or Physics or Concentration - Energy & Environment			3	3
	*New	PHZ 4470 - Materials Characterization				3
IV. Concentration		Concentrations should consist of no more than 12 credits. If other than "Advanced Topics," up to six credits may come from electives or courses in other concentrations.	12	12	12	12
	Conc 1	Physics of Medicine	12	12		
	*New	CHM 3218 - Biochemistry (One Semester)	3	3		
	*New	BME 3312 - Molecular & Cellular Engineering	3	3		
	*New	PHZ 4702 Biomedical Physics I	3	3		
	*New	PHZ 4703 - Biomedical Physics II	3	3		
	Conc 2	Physics of Space			12	
	*New	AST 4220 - Astrophysics I			3	
	*New	AST 4221 - Astrophysics II			3	
	*New	AST 4341 - Hydrodynamics & Plasma for Astro			3	
	*New	AST 4402 - Galaxies & Cosmology			3	
	Conc 3	Physics of Energy and Sustainability				12
	*New	EEL 3287 - Renewable Energy & Sustainability				3
	*New	EEL 4290 - Sustainability for Engineering Technology & Entrepreneurship				3

	*New	EMA 4491 - Nanotechnology and Materials for Energy Storage & Production				3
	*New	EEL 4283 - Renewable Energy Systems				3
V. Electives		The number of electives may be reduced to fill out the program core or meet institutional or state required general education requirements.	6	6	6	6
	*New	BSC 1011 - Biology II		3	3	3
	*New	CHM 3217 - Organic Chemistry (One Semester)		3		
	*New	PHY 3272 - Physics of Space Flight			3	
	*New	EMA 4780 - Materials for Sustainability				3
VI. Capstone		All programs are required to have a 6 credit senior capstone sequence.	6	6	6	6
	*New	PHY 4910 - Directed Independent Research 1 (Senior Capstone 1)		3	3	3
	*New	PHY 4911 - Directed Independent Research 2 (Senior Capstone 2)		3	3	3
TOTAL HOURS			120	120	120	120

Program: Construction/Building Technology **CIP:** 15.1001
Offered At: FIU **Track:** 1/3
UF **Program Length:** 121 Cr Hours
125

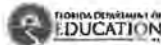
LOWER LEVEL COURSES

- ACGX021 (1,2) or ACGX02224 (1)
 Or ACGX001 (1)
- & BCNX251 (2)
- & BCNX253 (1)
- & BCNX280 (1) or SURX101 (1)
- & BCNX272 (1)
- & BCNX210 (1, 2)
- & BCNX405C
- & ECOX013 (1, 2) or ECOX023 (1, 2)
- & GLYX010/X010L (1) or GLYX010C (1)
- & MACX233 (1) or MACX311 (1, 2)
Or MACX114 (1) & CGSX060 (1)
- & PHYX053/X048L (1) or
 PHYX004/X004L (2) & PHYX005/X005L (2)
Or PHYX004C (2) & PHYX005C (2)
- & STAX023 (1, 2)
- & BULX320 (1) or BULX241 (1) or BULX310 (2)
- & ENCX210 (2)
- & SPNX180 (2) or SPNX120 (2)
- & COMX000 (2) or SPCX608 (1, 2)

(1) FIU Requirement
 (2) UF Requirement

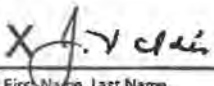
Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 45	Minus Number of Proposed Common Prerequisite Credit Hours
+ 9	Plus Number of Common Prerequisites in General Education Core
24	Equals Number Credit Hours to complete the 27* remaining hours of General Education

*It is anticipated that the number of science, mathematics and, perhaps, communications coursework will include courses that are in the institution's general education coursework so there still should be space (although there is a need for critical advising.)



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Jose Faria	Email: fariaj@fiu.edu Phone: 305.348.3541
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges: Janie Valdes, Ed.D. Assistant Vice President Enrollment Management & Services	 First Name, Last Name Title: Email: valdesj@fiu.edu Phone: 305.348.0265
Requesting Institution: Florida International University	

Commented [PL1]: Maybe include electronic signature

II. Program Information

Title of Degree Program: Construction Management	CIP Code: 15.1001	Track (if appropriate): 1/3
Does this proposal align with a current track?	Yes: X	No:
Is this program approved for limited access?	NO	
Approved total program hours to the baccalaureate degree: 121		
Other institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): UF (track 1/3), FAMU and SSCf (track 2/3), and UNF (track 3/3)		

III. Proposed Changes - Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary).

Commented [PL2]: All columns must be completed

Current Approved Common Prerequisites			
Course Prefix		Course Name	Cr. Hrs.
ACGX021	FIU + UF		
Or ACG X024	FIU Only	Accounting for Managers	3
Or ACGX001	FIU Only		
& BCN X251	UF Only		
& BCNX253	FIU Only	Building Drawings	3
& BCNX280	FIU Only	Construction Surveying	3
Or SURX101	FIU Only		
& BCNX210	FIU + UF	Construction Materials and Methods	3
& BCNX405	No footnote	Structural Design I	3
& ECOX013	FIU + UF	Macroeconomics	3
Or ECOX023	FIU + UF		
& GLYX1010/X1010L	No footnote	Physical Geology and Lab	4
Or GLYX030C	FIU Only		
& MACX233	FIU Only	Calculus for Business	3
Or MACX311	FIU + UF		
& PHYX053/X048L	FIU Only	Physics without Calculus and Lab	5
Or PHYX004/X004L	UF Only		
& PHYX005/X005L	No footnote		

4/19/2018



Common Prerequisite Proposal

& STAX023	FIU + UF	Statistics for Business and Economics	3
& BULX320	FIU Only		
Or BULX241	FIU Only		
Or BULX310	UF Only	The Legal Environment for Business	3
& ENCX210	UF Only		
& SPNX100	UF Only		
Or SPNX120	UF Only		
& COMX000	UF Only		
Or SPCX608	FIU + UF	Public Speaking	3
Current Approved Common Prerequisite Credit Hours			39

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
& BCNX272	3	11	2	Plans Interpretation. Students need to be able to read and interpret plans. This is an essential skill for students to be successful in their education and careers. The course is a prerequisite to other BCN courses, and it has always been accepted from our largest sending transfer institutions (MDC and BC). The FIU catalog has always included it as a lower-division requirement. We believe it serves students well to complete it prior to transferring.
Or ARCX126	4	3	0	Architectural Drawing I. Include as an acceptable substitute for BCNX272.
& MACX233	3			Calculus for Business.
Or MACX114	3	29	9	Trigonometry. Allows for greater flexibility to students transferring into FIU. The course is a prerequisite to BCN X405. It is useful for estimating, surveying, and the structural design course sequence.
& CGSX060	3	12	6	Knowledge of basic computer applications is needed.

C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.
N/A	



Common Prerequisite Proposal

D. If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:

N/A

E. Are you requesting to delete any of the currently approved common prerequisites? If so, please list below:

N/A

Review of Completion within 60 semester hours.

A. Course Prerequisites, if known, for Common Prerequisite

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
Number of College Level Prerequisites for Common Prerequisite Courses		

Commented [PL3]: This information varies by institution. Leave this section out.

B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
45	Minus Number of Proposed Common Prerequisite Credit Hours
	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
14	Plus Number of Common Prerequisites in General Education Core
29	Equals Number Credit Hours to complete remainder of General Education

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

N/A

V. Supporting Documentation

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Note: This CIP is shared with UF. Footnotes offer clarity as to which courses are required for each program. We request that a footnote be added to FIUs proposed additional prerequisite courses. There are also several prerequisites with no footnotes. These are: BCNX405C, GLY X010/X010L, and PHY X005/X005L.

BCNX405C and GLY X010/X010L are required by FIU. FIUs current number is BCN 2402, we are in the process of updating this number to 2405 to align with all other institutions. I do not know if these are requirements for UF. PHY X005/X005L should include a footnote only for UF since it is a follow-up course to PHY X004/X004L, which already has a footnote 2.

Date of Submission to the Board of Governors or the Division of Florida Colleges: _____

4/19/2018

Moss School of Construction, Infrastructure and Sustainability

Irtishad U. Ahmad, Ph.D., P.E., Professor
Ronald A. Baier, P.E., University Instructor Emeritus
José Faria, Ph.D., PMP, Interim Director
Eugene D. Farmer, A.I.A., NCARB, LEED-AP BD+C, Professor Emeritus
Vamsi S. Kalasapudi, Ph.D., Visiting Instructor
Xuan Lv, Ph.D., Assistant Professor
José D. Miltrani, P.E., CPC, CGC, Professor Emeritus
Ayman A. Morad, Ph.D., Senior Instructor
Wallied Orabi, Ph.D., Associate Professor and Undergraduate Program Director
Nipesh Pradhananga, Ph.D., P.E., Assistant Professor and Graduate Program Director
David Ramsey, Ph.D., Instructor
Natasha Wedderburn, MPA, Professional Academic Advisor
Lu Zhang, Ph.D., Assistant Professor

Bachelor of Science in Construction Management

Degree Program Hours: 121

The undergraduate program in Construction Management is nationally accredited by the American Council for Construction Education. Its goal is to provide students with the knowledge and skills required for entry level supervisory or managerial positions in the construction industry. Graduates usually find employment as project managers, project schedulers, cost estimators, quality controllers or in managing their own construction firms.

Opportunities for employment or advancement exist in all areas of the construction industry including land development, home building, public building, industrialized building systems, commercial, industrial, marine and highway heavy construction, underwater and space age facilities, material and equipment sales and installations, and construction product research, development and sales.

Honorary and Professional Organizations

Sigma Lambda Chi: Sigma Lambda Chi is the national honor society for students in Construction. The purpose of Sigma Lambda Chi is to recognize students in Construction Management for outstanding scholastic achievement. The organization provides a service to the students by inviting guest lecturers, sponsoring student tutoring and undertaking a variety of service projects.

Student Chapter of the Associated General Contractors of America: The AGC is a national student organization sponsored by the Associated General Contractors. Its purpose is to increase student awareness of the construction industry, promote fellowship and professionalism and to provide service to the School, University and Community. Membership is open to all Construction related majors. Activities include sponsoring guest lecturers, attendance at local, regional and national AGC meetings and conferences, and undertaking a variety of service projects.

Student Chapter of the Associated Builders and Contractors: The ABC is a national student organization sponsored by the Associated Builders and Contractors. Its purpose is to increase student awareness of the construction industry, promote fellowship and professionalism and to provide service to the School, University and Community. Membership is open to all Construction related majors. Activities include sponsoring guest lectures, attendance at local, regional and national ABC meetings and conferences, and undertaking a variety of service projects.

Student Chapter of the National Association of Women in Construction: This national student organization is sponsored by the National Association of Women in Construction. Its purpose is to promote knowledge of the construction industry and fellowship within the student body. Activities include monthly meetings with guest lecturers, field trips and a variety of service projects. The FIU student chapter of NAWIC was the first such chapter established in the United States. Membership is open to all construction related majors.

Program of Study

The four year program leading to a Bachelor of Science in Construction Management is for students who are interested in preparing for professional careers in construction management, operations, and related areas in the construction industry.

The Lower Division courses, i.e. Freshman and Sophomore levels, are selected to provide easy transfer for community college graduates. With proper planning, full time transfer students with an A.A. degree are able to complete the four year degree program in four remaining semesters at the University. Prospective community college transfer students should contact an advisor for program information and Lower Division transfer requirements.

Students already working full or part time, many with trades or construction licenses, are generally able to plan their program around job commitments and responsibilities. Faculty advisors are on hand days and evenings to assist students in course selection and scheduling.

Admission

The Moss School of Construction, Infrastructure and Sustainability encourages applications for admission from qualified students from all cultural, racial, religious or ethnic groups, regardless of gender.

Grade Point Average

Admission into the undergraduate program requires a minimum 2.0 grade point average. Students transferring from another university or community college should review the Florida International University Undergraduate Catalog for university policies, application procedures, and financial aid information. Prior to or upon admission, transfer students should also contact a Construction Management advisor to review transcripts and determine allowable transfer credits.

Transfer Credits

No grade below a 'C' in any required course is acceptable for transfer into the program. Lower Division courses (courses at the 1000 or 2000 level) designated as

equivalent by the statewide course numbering system will be accepted by the School as fulfilling the Upper Division requirements. Credits from these Lower Division courses may be used to offset Upper Division core credit requirements. Other 1000 and 2000 level courses designated as equivalent by a School advisor may be accepted by the School as fulfilling Upper Division requirements. When equivalent Lower Division courses are used to fulfill Upper Division course requirements a student will be required to complete an equal number of 3000 level (or above) credits from approved Departmental electives. Transfer credits above the 60 semester credit hours accepted from the community college system will not reduce the number of credit hours to be completed in the Upper Division, including electives, to earn a degree.

University Core Curriculum Requirements

Students entering the University with less than 36 semester credit hours will be required to meet the requirements of the University Core Curriculum, in addition to the School Lower Division Core. Students should review the General Core Requirements in the undergraduate catalog.

Non Degree-Seeking

Students wishing to enroll in courses during the application process may do so as a non-degree seeking, special student. Students must consult an advisor for approval and complete a non-degree seeking enrollment waiver. Without this waiver and advisor approval, there is no guarantee that the courses taken will subsequently be accepted for graduation. No more than 15 semester credits of work taken as a non-degree seeking can be applied towards graduation. Students taking courses under the special student designation should consult other sections of this catalog for their pertinent regulations concerning the special student status.

General Regulations

Normal Loads

Students taking a minimum of 12 semester credit hours per semester are considered full time students. Students taking under 12 hours are considered part time and should be aware that certain University privileges and benefits may not be applicable to part time students. It is not recommended that students take more than 18 credit hours per term. Special exceptions may be made, at the option of the School, in the case of students with a grade point average of 3.0 or greater. Students that meet this criteria wishing to take over 18 semester credit hours must have the approval of both the Director of the School and the Dean of the College of Engineering and Computing prior to registering.

Grades

The Moss School of Construction, Infrastructure and Sustainability requires a minimum grade of 'C' or better in all required courses and electives. This includes those required courses transferred from other institutions.

Grade of Incomplete

A grade of 'I' (Incomplete) may be granted, at the option of the Instructor, to a student who, due to serious, documented, and verifiable extenuating circumstances

beyond his/her control is unable to complete the work required to obtain a grade for a course. Students wishing to receive an incomplete must meet with their professor and sign an agreement outlining what work must be completed to receive the final grade and when this work is due. Failure of the student to either complete the work required by the agreement or not meet the deadline prescribed in the agreement will result in the grade reverting to a grade of "F" (failing grade).

Independent Study

Students who wish to enroll in an independent study course must have the prior written approval of both the instructor and the School Director. Independent Study courses can not be substituted for required Lower or Upper Division departmental core courses or for elective courses.

Minor in Business

Construction Management students take courses in the College of Business Administration that may be applied towards a minor in Business, Marketing, or Entrepreneurship. Students interested in pursuing one of these options should consult the appropriate section of the catalog for details.

Credit By Examination

The School does not generally offer credit by examination. A student with outstanding, exceptional and documented skills in a particular subject as well as an outstanding academic record may request credit by examination, and it is the option of the School Faculty and the School Director whether to grant the request.

Credit For Non-College Learning

The School does not award credit for non-college learning (life work experience).

Student Work

The School reserves the right to retain any and all student work for the purposes of record, exhibition or instruction.

Normal Academic Progress

The student will have maintained normal academic progress when the student earns a minimum grade point average of 2.0 for all work attempted during a term, and an overall minimum of 2.0.

Course Sequence and Prerequisites

Course prerequisites are clearly indicated in this catalog and on the Undergraduate Program sheets, available in the School office. In the event of a conflict between the program sheet and the catalog, the catalog requirements will prevail. It is the student's responsibility to ascertain that required prerequisites have been taken and passed prior to registering for a course. Failure to comply with prerequisite requirements may result in the student being dropped from a class.

Probation or Dismissal

Students who do not make satisfactory academic progress may be excluded from further registration. Students dismissed from the University for academic reasons will normally not be allowed to re-enroll for one year.

Class Attendance

Class attendance may be required and may be used for grade determination at the option of the instructor.

Graduation

In order to be eligible to graduate, the student must meet all University and School requirements. The program of studies consists of a minimum of 45 Lower Division semester credit hours, including 21 semester credit hours that can be used to satisfy the University Core Curriculum, and 60 Upper Division semester credit hours for a minimum total of 121 semester credit hours. The waiving of any required course shall not reduce the minimum of 121 semester credit hours required for graduation. A student entering as a freshman or with less than 36 transfer credit hours must have successfully completed the University Core Curriculum with minimum acceptable grades as determined by Undergraduate Studies (see catalog for additional information). In addition, all required Lower Division and Upper Division Construction Management courses and electives must be completed with a grade of 'C' or better. In order to graduate, a student must also have a minimum grade point average of 2.0, and have met the foreign language requirement.

Students should contact an advisor at least one semester prior to their projected graduation and request a review of his or her file. At the start of the final semester the student is required to complete an Application for Graduation. (See catalog for additional information on graduation procedures and scheduling.) If for any reason a student fails to graduate in the semester after applying for graduation, they must reapply.

It is the student's responsibility to ascertain that all requirements for graduation have been met.

Foreign Language Requirement

Students must meet the University Foreign Language Requirement. Refer to the appropriate sections in the Catalog's General Information for Admission and Registration and Records.

Undergraduate Curriculum

The following courses comprise the undergraduate curriculum leading to a degree of Bachelor of Science in Construction Management. Except for the Environmental Control courses, those numbered 'I' shall be taken before courses numbered 'II'. Some credits of the Lower Division Core can be used to satisfy University Core requirements.

University Requirements

First time students or transfer students with less than 36 credit hours must meet the University's core requirements as outlined in this catalog.

Common Prerequisite Courses and Equivalencies

<u>FIU Course(s)</u>	<u>Equivalent Course(s)</u>
GLY 1010/GLY 1010L	GLYX010/GLYX010L or GLYX030C
BCN 2210	BCNX210
BCN 2253	BCNX253
BUL 4320	BULX320 or BULX241
MAC 2233	MACX233 or MACX311
PHY 2053, PHY 2048L	PHYX053/X048L or

ECO 2013 or ECO 2023	PHYX005/X005L
ACG 3024	ECOX013 or ECOX023
	ACGX021 or ACGX024
	ACGX001
STA 2023	STAX023
BCN 2280	BCNX280 or SURX101
SPC 2608	SPCX600 or COMX000 or SPCX608

Courses which form part of the statewide articulation between the State University System and the Florida College System will fulfill the Lower Division Common Prerequisites.

For generic course substitutions/equivalencies for Common Program Prerequisites offered at community colleges, state colleges, or state universities, visit: <http://www.flvc.org>, Search Program Listing in Alphabetic Order.

Departmental Lower Division Courses

GLY 1010	Physical Geology	3
GLY 1010L	Physical Geology Lab	1
BCN 2210	Construction Materials and Methods	3
BCN 2253	Building Informatics	3
BUL 4320	Business Law I	3
MAC 2233	Calculus For Business	3
PHY 2053	Physics without Calculus	4
PHY 2048L	Physics Laboratory	1
ECO 2013	Principles of Macroeconomics	3
	or	
ECO 2023	Principles of Microeconomics	3
ACG 3024	Accounting For Managers	3
STA 2023	Statistics for Business and Economics	3
BCN 2280	Construction Surveying	3
SPC 2608	Public Speaking	3

Additional courses required for the degree:

BCN 1272	Plans Interpretation	3
BCN 2402	Structural Design I	3

Upper Division Courses

BCN 1013	Principles of Construction Management	3
BCN 3730	Construction Safety	3
BCN 3740	Legal Aspects of Construction	3
BCN 3761	Construction Documentation and Communication – GL	3
BCN 3762	Building Codes	3
BCN 4431	Structural Design II	3
BCN 3611	Construction Cost Estimating I	3
BCN 4612	Construction Cost Estimating II	3
BCN 3720	Construction Scheduling I	3
BCN 4724	Construction Scheduling II	3
BCN 3753	Financial Management of Construction Organizations	3
BCN 3727	Construction Sitework and Equipment	3
BCN 4465	Temporary Structures in Construction	3
BCN 4561	Environmental Control in Buildings I	3
BCN 4570	Sustainable Approach to Construction	3
BCN 4794	Quality Control in Construction	3
BCN 4564	Environmental Control in Buildings II	3
BCN 4703	Management of Construction Projects	3
BCN 4910	Senior Project	3
MAN 3022	Introduction to Management	3
XXX XXXX	Elective	3

Elective

One 3 credit construction management or 3000-4000 level business/management elective, selected in consultation

with the Undergraduate Advisor of the School department, is required.

Sample Program of Study

The following is a sample program of study for a student seeking to earn a degree of Bachelor of Science in Construction Management. The reader is reminded that all students entering a university in the State University System with fewer than 60 credit hours are required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a state university.

Bachelor of Science in Construction Management

Degree Program Hours: 121

Undergraduate Program

The following analysis assumes that the student enters the university from high school or with less than 36 credits and no foreign language experience.

First Semester: (16)

ENC 1101	Writing and Rhetoric I	3
SLS 1501	First Year Experience	1
MAC 2233	Calculus For Business	3
ECO 2013	Principles of Macroeconomics	3
	or	
ECO 2023	Principles of Microeconomics	3
SPC 2608	Public Speaking	3
	Social Science (Group One or Two)	3

Second Semester: (10)

ENC 1102	Writing and Rhetoric II	3
GLY 1010	Physical Geology	3
GLY 1010L	Physical Geology Lab	1
	Humanities (Group One or Two)	3

Third Semester: (18)

ACG 3024	Accounting for Managers	3
BCN 1013	Principles of Construction Management	3
BCN 1272	Plans Interpretation	3
BCN 2210	Construction Materials and Methods	3
	Humanities (Group One or Two)	3
BCN 3761	Construction Documentation and Communication – GL	3

Fourth Semester: (17)

PHY 2053	Physics w/o Calculus	4
PHY 2048L	General Physics Lab	1
STA 2023	Statistics for Business and Economics	3
BCN 2253	Building Informatics	3
BCN 2280	Construction Surveying	3
BUL 4320	Business Law	3

Fifth Semester: (15)

BCN 2402	Structural Design I	3
BCN 3762	Building Codes	3
BCN 3730	Construction Safety	3
BCN 3611	Construction Estimating I	3
BCN 4570	Sustainable Approach to Construction	3

Sixth Semester: (18)

BCN 3720	Construction Scheduling I	3
BCN 3727	Construction Sitework and Equipment	3
BCN 3740	Legal Aspects of Construction	3
BCN 3753	Financial Management of Construction Organizations	3

BCN 4612	Construction Estimating II	3
BCN 4431	Structural Design II	3

Seventh Semester: (15)

BCN 4465	Temporary Structures	3
BCN 4703	Management of Construction Projects	3
BCN 4724	Construction Scheduling II	3
BCN 4561	Environmental Control in Buildings I	3
BCN 4794	Quality Control in Construction	3

Eighth Semester: (12)

BCN 4564	Environmental Control in Buildings II	3
BCN 4910	Senior Project	3
MAN 3022	Introduction to Management	3
XXX XXXX	Elective	3

Minor in Construction Management

The School offers an undergraduate minor in Construction Management for students in other disciplines. For admission to the minor, students need to be fully admitted to their major and must have a 2.25 GPA.

Students opting for a minor in Construction Management must complete the following courses:

BCN 1272	Plans Interpretation
BCN 3611	Construction Estimating I
BCN 3720	Construction Scheduling I
BCN 3730	Construction Safety
BCN 3762	Building Codes
BCN 4703	Management of Construction Projects

Note: Required prerequisites must be taken for all courses in the minor.

Course Descriptions

Definition of Prefixes

BCN-Construction.

Courses that meet the University's Global Learning requirement are identified as GL.

BCN 1013 Principles of Construction Management (3).

Covers the construction industry with emphasis on the principles of construction management.

BCN 1251 Building Construction Drawing (3).

The laboratory application of Methods and Materials of Construction I. Students study plans, elevations, sections, and details appropriate to light construction.

BCN 1272 Plans Interpretation (3).

Building construction plans interpretation of working drawings for residential, commercial building, and civil construction.

BCN 1520 Practical Electricity and Electrical Circuits (1-5).

Basic concepts of electricity. D.C. and A.C. sinusoidal sources. Resistance. Ohms Law. Analysis of simple resistive circuits. Kirchhoff's Laws. True R.M.S. Values. Power in resistive circuits. Complex nos. Impedance. Basic instrumentation.

BCN 1522 Electrical Wiring in Residential Construction (1-5).

Introduction to residential wiring. Conductors, insulators. Color code. Safety. Ground. National Electrical Code. South Florida Building Code. Practical applications. Measurement devices.

BCN 2210 Construction Materials and Methods (3). A study of the origins, production and uses of construction materials such as concrete, steel, aluminum, wood, brick, and stone. A combination of structural and non-structural, interior and exterior materials and assemblies will be examined.

BCN 2253 Building Informatics (3). Principles and practices of computer assisted building information modeling employed in the construction industry. Prerequisite: BCN 1272.

BCN 2280 Construction Surveying (3). Principles and practices of surveying as it applies to building construction.

BCN 2402 Structural Design I (3). Applications of the principals of statics and strength of materials to engineering problems of equilibrium, strength and stiffness. Topics include equilibrium of forces, stress, strain, beams and col. Prerequisites: MAC 1147 or MAC 1114, PHY 2053, 2048L.

BCN 3240 Construction Equipment (3). Methods, procedures, and equipment used in residential, commercial, and heavy construction. Equipping the construction plant. Production value analysis. Work effectiveness studies.

BCN 3441C Fundamentals of Concrete Properties and Testing (4). This course examines effects of concrete-making materials on the properties of fresh and hardened concrete. Topics include: cement and aggregates properties and testing; analysis of concrete strength. Prerequisites: BCN 3443 or departmental approval.

BCN 3442C Concrete Construction Methods (3). This course covers forming, shoring, placing and reinforcing operations. Cast-in-place foundations, pavements, slabs, structural frames, and others. Prerequisite: BCN 3441C.

BCN 3443 Introduction to the Concrete Industry (3). Overview of the history, careers, job functions, and professional organizations in the concrete industry. Topics include: overview of the concrete industry, history, components, production and uses.

BCN 3444 Applications of Concrete in Construction (3). A detailed study of the many uses of concrete in the construction of buildings, and other facilities. Unique problems faced by materials suppliers, contractors and design professionals. Prerequisite: BCN 3442C.

BCN 3445 Management of Concrete Products I (3). This course provides student with a basic understanding of managing the ordering and delivery process common to all concrete products including planning, organizing and controlling schedule. Prerequisites: BCN 3444 or departmental approval.

BCN 3446 Management of Concrete Products II (3). This course provides basic understanding of managing the manufacturing process common to all concrete products production facilities including planning, organizing, and controlling production. Prerequisites: BCN 3444 or departmental approval.

BCN 3447 Concrete Problems: Prevention, Diagnosis and Resolution (3). Course involves preventing and diagnosing problems related to concrete production, testing, construction and performance. Identification of causes of concrete problems, and resolution methods. Prerequisites: BCN 3444 or departmental approval.

BCN 3611 Construction Cost Estimating I (3). Principles and practices of estimating providing application and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, lath and plaster, interior finishes. Prerequisites: BCN 1272 and BCN 2210.

BCN 3640 Economic Planning for Construction (3). Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures.

BCN 3720 Construction Scheduling I (3). Critical Path and Precedence Diagram Methods in construction planning and scheduling, including: resource management, cashflow, PERT, time compression and scheduling updating. Prerequisite: STA 2023.

BCN 3727 Construction Sitework and Equipment (3). Exposition and critical analysis of practical and sequential aspects of converting raw land to finished product. Course will define various steps and discuss equipment and techniques of accomplishment. Prerequisites: GLY 1010, GLY 1010L, BCN 2210.

BCN 3730 Construction Safety (3). Introduces occupational safety hazards associated with the construction industry. Emphasis placed on recognition, evaluation, and control of safety hazards particularly as they relate to the Occupational Safety and Health Act.

BCN 3740 Legal Aspects of Construction (3). Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements. Prerequisites: BUL 4320 and BCN 1013.

BCN 3753 Financial Management of Construction Organizations (3). Accounting for construction operations; labor, materials, equipment, and overhead costs. Money management, depreciation, taxes, loans, profit/losses analysis. Prerequisites: ACG 3024 or equivalent.

BCN 3761 Construction Documentation and Communication – GL (3). Writing and transmitting construction documentation for technical and legal requirements for construction projects in a global context. Stresses development of verbal and written communication skills. Prerequisite: MAC 2233 or equivalent.

BCN 3762 Building Codes (3). Study of building codes required by local, county, and state levels and their relation to quality control. Prerequisite: BCN 1013, BCN 2210.

BCN 3949 Industry Internship (1). This course provides an opportunity for students to gain supervised, practical work experience in their particular field of interest within the industry. Prerequisites: Consent of advisor and School Director.

BCN 4431 Structural Design II (3). Intro to the material properties, allowable stresses, codes and standards for the design of reinforced concrete, pre-stressed concrete, reinforced masonry structures and the design of steel structures. Prerequisites: BCN 2210, BCN 2402, PHY 2053, PHY 2048L.

BCN 4462 Structural Design III (3). Introduction to the material properties, allowable stresses, applicable codes and standards for the design of reinforced concrete, prestressed concrete and reinforced masonry structures. Prerequisites: BCN 4431.

BCN 4465 Temporary Structures in Construction (3). Material properties, allowable stresses, applicable codes and standards for timber structures and the theory and practice of the planning, design, erection and maintenance of temporary structures. Prerequisites: BCN 4431.

BCN 4561 Environmental Control in Buildings I (3). A study of the concepts of thermal and plumbing systems in residential and commercial buildings, including code provisions and cost estimates. Prerequisite: BCN 2210.

BCN 4564 Environmental Control in Buildings II (3). Concepts and practices of electrical systems in the construction of residential and commercial buildings, including code provisions and cost estimates. Prerequisites: PHY 2053 and PHY 2048L.

BCN 4570 Sustainable Approach to Construction (3). This course presents a study of the concepts and techniques of sustainable construction. An in depth review of sustainable materials and construction techniques will be covered. Prerequisite: BCN 4561.

BCN 4612 Construction Cost Estimating II (3). Quantity take-offs and pricing, and the application of computing techniques in construction estimating. Prerequisites: BCN 3611 and BCN 3727.

BCN 4703 Management of Construction Projects (3). Management of construction project field operations and procedures as they relate to contract management, planning, control, coordination, quality, safety, documentation, and resource management. Prerequisites: BCN 3720, BCN 3730, BCN 3740, BCN 3611.

BCN 4724 Construction Scheduling II (3). The application of advanced computerized planning, scheduling, and simulation techniques to construction operations, processes, and control. Prerequisites: BCN 3720 and BCN 3611.

BCN 4794 Quality Control in Construction (3). Quality control as governed by the job inspector, contractor superintendent, architect-engineer, building official, and governmental agencies and requirements. Prerequisites: BCN 3762 or equivalent.

BCN 4905 Directed Independent Studies (VAR). Specialized intensive study in an area of special interest to the student. Prerequisites: Permission of the instructor and the School Director.

BCN 4906 Special Topics (3). For a group of students who wish an intensive study of a topic not otherwise offered in the University. Prerequisites: Permission of the instructor and the School Director.

BCN 4910 Senior Project (3). This course requires the senior level construction management student to work on a project designed to integrate the knowledge acquired in multiple topics within the undergraduate curriculum. Prerequisites: All BCN courses except BCN 3753 and BCN 4564.

Program: Mathematics **CIP:** 27.0101
Track: ¼
Offered At: FAMU, FAU, FGCU, FIU, FL POLY, FSU, UCF, UF **Program Length:** 120 Cr. Hrs.
UNF, USF, UWF

LOWER LEVEL COURSES

Cr Hours

<p>COPXXX (1)- COPX271C Or COPX210 Or COPX270 Or COPX270C Or COPX272C Or COPX001</p>	3	<p>Introduction to Computation and Programming Pascal Programming I Programming in C for Engineers Computer Programming for Engineers C/C++/JAVA Programming Introduction to Computer Programming II</p>
& MACX311	4	Calculus I
& MACX312	4	Calculus with Analytic Geometry II
& MACX313	4	Calculus with Analytic Geometry III
& MAPX302	3	Differential Equations
<p>& BSCXXXX/XXXXL (2) Or CHMXXXX/XXXXL (2) Or PHYXXXX/XXXXL (2) Or GLYXXXX/XXXXL (2)</p>		
<u>Take one of the following science and corresponding lab:</u>		
<p>& BSCX010/X010L Or BSCX010C Or CHMX045/X045L Or CHMX045C Or PHYX048/X048L Or PHYX048C Or GLYX010/X010L Or GLYX010C</p>	4	<p>Biology I and Lab Chemistry I and Lab Physics I and Lab Geology and Lab</p>

~~(1) a scientific programming course designed for computer science majors~~
~~(2) one laboratory based science course designed for science majors~~

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
-	22 Minus Number of Proposed Common Prerequisite Credit Hours
+	6 Plus Number of Common Prerequisites in General Education Core
44	Equals Number Credit Hours to complete the 30 remaining hours of General Education

Program: Mathematics **CIP:** 27.0101
 FSU Teach 3/4
Offered At: FSU **Program Length:** 120 Cr. Hrs.

LOWER LEVEL COURSES

Cr Hours

<p>COPXXX (1) COPX271C Or COPX210 Or COPX270 Or COPX270C Or COPX272C Or COPX001</p>	3	<p>Introduction to Computation and Programming Pascal Programming I Programming in C for Engineers Computer Programming for Engineers C/C++/JAVA Programming Introduction to Computer Programming II</p>
& MACX311	4	Calculus I
& MACX312	4	Calculus with Analytic Geometry II
& MACX313	4	Calculus with Analytic Geometry III
& MAPX302	3	Differential Equations
<p>& BSCXXXX/XXXXL (2) Or CHMXXXX/XXXXL (2) Or PHYXXXX/XXXXL (2) Or GLYXXXX/XXXXL (2)</p>		
Tale one of the following science and corresponding lab:		
<p>& BSCX010/X010L Or BSCX010C Or CHMX045/X045L Or CHMX045C Or PHYX048/X048L Or PHYX048C Or GLYX010/X010L Or GLYX010C</p>	4	<p>Biology I and Lab Chemistry I and Lab Physics I and Lab Geology and Lab</p>
& SMTX043(3.1)	1	
& SMTX053 (3.1)		

~~(1) a scientific programming course designed for computer science majors~~

~~(2) one laboratory based science course designed for science majors-~~

~~(3) (1) Transfer students will be able to take SMTX043 and SMTX053 when admitted to upper division.~~

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 24	Minus Number of Proposed Common Prerequisite Credit Hours
+ 6	Plus Number of Common Prerequisites in General Education Core
42	Equals Number Credit Hours to complete the 30 remaining hours of General Education

Program: Mathematics **CIP:** 27.0101
 Mathematics Teacher Education **Track:** 4/4
Offered At: FIU **Program Length:** 120 Cr. Hrs.

LOWER LEVEL COURSES

Cr Hours

<p>GOPXXX (1) COPX271C Or COPX210 Or COPX270 Or COPX270C Or COPX272C Or COPX001</p>	<p>3</p>	<p>Introduction to Computation and Programming Pascal Programming I Programming in C for Engineers Computer Programming for Engineers C/C++/JAVA Programming Introduction to Computer Programming II</p>
<p>& MACX311</p>	<p>4</p>	<p>Calculus I</p>
<p>& MACX312</p>	<p>4</p>	<p>Calculus with Analytic Geometry II</p>
<p>& MACX313</p>	<p>4</p>	<p>Calculus with Analytic Geometry III</p>
<p>& MAPX302</p>	<p>3</p>	<p>Differential Equations</p>
<p>& BSGXXXX/XXXXL (2) Or CHMXXXX/XXXXL (2) Or PHYXXXX/XXXXL (2) Or GLYXXXX/XXXXL (2)</p>		
<p><u>Take one of the following science and corresponding lab:</u></p>		
<p><u>& BSCX010/X010L</u> Or BSCX010C Or CHMX045/X045L Or CHMX045C Or PHYX048/X048L Or PHYX048C Or GLYX010/X010L Or GLYX010C</p>	<p>4</p>	<p>Biology I and Lab Chemistry I and Lab Physics I and Lab Geology and Lab</p>

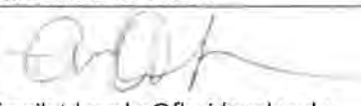
~~(1) a scientific programming course designed for computer science majors~~
~~(2) one laboratory based science course designed for science majors~~

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 22	Minus Number of Proposed Common Prerequisite Credit Hours
+ 6	Plus Number of Common Prerequisites in General Education Core
44	Equals Number Credit Hours to complete the 30 remaining hours of General Education



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Dr. Nicoleta Hickman	Email: nhickman@floridapoly.edu Phone: 863-874-8523
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges): Dr. Tom Dvorske, Vice Provost of Assessment & Instruction	 Email: tdvorske@floridapoly.edu Phone: 863-874-8544
Requesting institution:	

II. Program Information

Title of Degree Program: Engineering Math	CIP Code: 27.0301	Track (if appropriate): Same as 27.0101 Track 1
Does this proposal align with a current track?	Yes: X	No:
Is this program approved for limited access?	No	
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): None at this CIP; however, the proposed common prerequisites are the same as those for Mathematics, General, CIP 27.0101.		

III. Proposed Changes – Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary).

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
COP XXXX/2271C	Introduction to Computation and Programming	3
MAC 2311	Analytic Geometry and Calculus 1	4
MAC 2312	Analytic Geometry and Calculus 2	4
MAC 2313	Analytic Geometry and Calculus 3	4
MAP 2302	Differential Equations	3
Any of the following		
BSC 1010 /1010L	Biology 1/ Biology 1 Lab	4
CHM 2045/2045L	Chemistry 1 / Chemistry 1 Lab	4
PHY 2048/2048L	Physics 1 / Physics 1 Lab	4
GLY XXXX/XXXL	Geology / Geology Lab	4
Current Approved Common Prerequisite Credit Hours		22



Common Prerequisite Proposal

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
COP XXXX/2271C	3	14	12	E.G. COP X224 (C++) satisfies our institutional need.
MAC 2311	4	29	12	Consistent with existing Common Prerequisites
MAC 2312	4	29	12	Consistent with existing Common Prerequisites
MAC 2313	4	28	12	Consistent with existing Common Prerequisites
MAP 2302	3	29	12	Consistent with existing Common Prerequisites
Any of the following				
BSC 1010 /1010L	4	29	12	Consistent with existing Common Prerequisites
CHM 2045/2045L	4	29	12	Consistent with existing Common Prerequisites
PHY 2048/2048L	4	29	12	Consistent with existing Common Prerequisites
GLY XXXX/XXXL	4	17	8	Consistent with existing Common Prerequisites

C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.
Not Applicable	

If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:

Not Applicable

D. Please explain how any additions or deletions of common prerequisites affect programmatic accreditation issues:

Content is essential for meeting content criterion for ABET-EAC accreditation for Engineering Physics, which this program will be seeking.

IV. Review of Completion within 60 semester hours.

A. Course Prerequisites, if known, for Common Prerequisite

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
MAC 2311	MAC 1147 Pre-Calculus Algebra & Trigonometry	5
Number of College Level Prerequisites for Common Prerequisite Courses		5



Common Prerequisite Proposal

B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
-22	Minus Number of Proposed Common Prerequisite Credit Hours
-5	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+	Plus Number of Common Prerequisites in General Education Core
	Equals Number Credit Hours to complete remainder of General Education

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

V. Supporting Documentation

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Date of Submission to the Board of Governors or the Division of Florida Colleges: 3/13/2019

Program:	<u>Mathematics, General</u>	CIP:	<u>27.0101</u>
	<u>Mathematics, General</u>	Track:	<u>1/4</u>
Offered At:	<u>FAMU, FAU, FGCU, FIU, FSU, UCF, UF, UNF, USF, UWF</u>	Program Length:	<u>120 Cr. Hrs.</u>

REVISED 10/22/08
 REVISED 2/24/2010
 Removed limited access 5/22/2013

LOWER LEVEL COURSES

	Cr. Hrs.	
— COPXXX (1)	3	
&— MACX311	4	Calculus I
&— MACX312	4	Calculus w/ Analytic Geometry II
&— MACX313	4	Calculus w/ Analytic Geometry III
&— ——— BSCXXXX/XXXXL (2)	4	
or ——— CHMXXXX/XXXXL (2)	4	
or ——— PHYXXXX/XXXXL (2)	4	
or ——— GLYXXXX/XXXXL (2)	4	
&— MAPX302	4	

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

-
- (1) a scientific programming course designed for computer science majors
 (2) one laboratory based science course designed for science majors
 NOTE that all universities require a 'C' grade or better for admission.

Florida Polytechnic University: Engineering Mathematics

The following table reflects the standard university template for all Florida Poly programs. Each program includes a professional foundations core, general education, advanced math and science, program content core, electives (if available), concentration course, and finally a capstone sequence. This table reflects the course options for both the mathematics of medicine and biology and complex systems concentrations.

University Undergraduate Program Curriculum Engineering Mathematics					
Approved 4/7/2017 (upd. 07/06/18)					
The following program curriculum template was approved by the UCC and the Provost in spring 2017. This template exists to ensure a certain level of consistency across new and existing programs in terms of general education, foundations, program core, and capstone requirements.					
Category	Section	Course	Course Credit Options	Math-Med & Bio	Complex Systems
I. Professional Foundations Core			8	8	8
		SLS 1106 - Professional Foundations (formerly First Year Experience)	1	1	1
		IDS 4941 - Professional Experience Internship	0	0	0
		IDS 1380 - Introduction to STEM	3	3	3
		EGN 1007C - Concepts and Methods for Engineering and Computer Science (req of Engineering and CS programs only).	1	1	1
		COP 2271C - Introduction to Computation and Programming (required for all programs)	3	3	3
		<i>All but Professional Foundations may be distributed in categories below to allow for appropriate credit hour allocations.</i>			
II. General Education			36	36	36
	Rules	<ol style="list-style-type: none"> 1. Students must complete at least one * course in each category to satisfy state of Florida regulation. 2. Students must take 9 hours of Humanities and Social Sciences, to be divided 6/3 between the areas. 3. Courses not taught by Florida Poly but listed in the State of Florida "common core" menu of courses can be accepted as transfer credit. 4. Transfer students who have fulfilled the general education requirements at another institution are understood to have fulfilled the requirements at Florida Poly. 			
	Section A	Communication	6	6	6
		ENC 1101 - English Composition 1: Exp and Arg Writing (W) *	3	3	3
		ENC 2210 - Technical Writing (W)	3	3	3
	Section B	Humanities	3 to 6	6	6
		ARH 2000 - Art Appreciation *	3	3	3
		PHI 2010 - Introduction to Philosophy *	3		
		HUM 2020 - Introduction to the Humanities *	3	3	3
		HUM 2022 Explorations in the Humanities (Special Topics)	3		
		IDS 2144 Legal, Ethical, and Management Issues in Technology	3		
	Section C	Social Science	3 to 6	6	6
		AMH 2010 - American History to 1877	3		
		AMH 2020 - American History Since 1877 (W) * Satisfies Florida State Civics Requirement	3	3	3
		AMH 2930 - History: Special Topics	3		
		ECO 2013 - Principles of Macroeconomics (W) *	3		
		ECO 2023 - Principles of Microeconomics (W)	3	3	3
		PSY 2012 - General Psychology (W) *			

	Section D	Mathematics	7	7	7
		MAC 2311 - Analytic Geometry and Calculus 1 *	4	4	4
		MAP 2302 - Differential Equations *	3	3	3
	Section E	Natural Sciences	8	8	8
		BSC 1010 - Biology 1 *	3	3	3
		BSC 1010L - Biology 1 Laboratory *	1	1	1
		CHM 2045 - Chemistry 1 *	3	3	3
		CHM 2045L - Chemistry 1 Laboratory *	1	1	1
	Section F	Open Inquiry	3	3	3
		An additional 3 hours of general education coursework must be taken here.			
		PHY 2048L - Physics 1 Laboratory *	1	1	
		PHY 2049L - Physics 2 Laboratory	1	1	
		PHY 2048 - Physics 1 *	3	0	3
	*New	CHM 2046L - Chemistry 2 Laboratory	1	1	
II. Program Foundations / Advanced Math & Science			15	14	16
		1. This area may consist of additional general education courses or other foundational courses in a related field.			
		2. General education courses must be used first to fulfill General Education requirements before being applied here.			
		3. 15 credits here, plus 15 in Sections D and E (above) meet the 30 hour Basic Math/Science requirement for ABET.			
		4. Should count the following in this category: COP 2271C - Introduction to Computation and Programming (required for all programs) Credits: 3. Doing so ensures the 30 hour ABET requirement for "Basic Math/Science."			
		PHY 2048 - Physics 1	3	3	
		PHY 2049 - Physics 2	3	3	3
	*New	CHM 2046 - Chemistry 2	3	3	
	*New	CHM 3218 - Biochemistry Lab	1	1	
	*New	CHM 3217 - Organic Chemistry Lab (1 Sem)	1	1	
		COP 2272- Computer Programming I	3		3
	*New	MAP 3253 - Math Scientific Computing	3		3
		PHY 2048L - Physics 1 Laboratory	1		1
	*New	MTG 4302 - Elements of Topology I	3		3
	*New	MTG 4303 - Elements of Topology II	3		3
	*New	CHM 3218 - Biochemistry	3	3	
III. Program Core			40	41	41
		40 credits represents a minimum, depending on how many credits are included in Category II, above.			
		Pre-Capstone design sequences should be included in this category-- may be listed as a subset in catalog to stand out.			
		The following may be counted in this category instead:			
		MAC 2312- Anal. Geo & Calc. 2 w Lab*	4	4	4
		MAC 2313 - Anal. Geo & Calc. 3 w Lab*	4	4	4
	*New	MAP 3403 - Eng. Math I (Math Methods)	3	3	3
	*New	MAP 4401 - Eng. Math II (Num. Analysis)	3	3	3
		MAD 2104 - Discrete Mathematics I	3	3	3
		MAD 3105 - Discrete Mathematics II	3	3	3
		STA 3032 - Engineering Stat (Prob & Stat)	3	3	3
		STA 3162 - Applied Statistics	3	3	3
		MAA 4102 - Advanced Calculus	3	3	3
		MAS 3105 - Linear Algebra	3	3	3
		MAP 4341 - Applied Partial Diff Eqs.	3	3	3
	*New	ISC 4930 - Special Topics: Applied Studies	3	3	3
Program Core-track requirements					

	*New	MAP 4102 - Prob Theory & Stoch Proc I	3		3
	*New	MAP 4484 - Math Biology I	3	3	
IV. Concentration		<i>Concentrations should consist of no more than 12 credits. If other than "Advanced Topics," up to six credits may come from electives or courses in other concentrations.</i>	12	12	12
	Conc 1	Mathematical Medicine and Biology	12	12	
	*New	ISC 4420 - Intro to Bioinformatics	3	3	
	*New	MAP 3930 - Special Topics – Applied Math	3	3	
	*New	BME 4422 - The Biophysics of Neural Comp.	3	3	
	*New	MAP 4494 - Math Biology II	3	3	
	Conc 2	Complex systems			12
	*New	MAP 4413 - Fourier Analysis with Appl.	3		3
	*New	MAP 4314 - Dynamical systems	3		3
	*New	MAP 4202 - Optimization Theory	3		3
	*New	EEL 4822 - Pattern Recognition	3		3
V. Electives		<i>The number of electives may be reduced to fill out the program core or meet institutional or state required general education requirements.</i>	3	3	1
	*New	CHM 3217 - Organic Chemistry (One Semester)	3	3	
		Physics 2 Laboratory	1		1
VI. Capstone		<i>All programs are required to have a 6 credit senior capstone sequence.</i>	6	6	6
	*New	PHY 4910 - Directed Independent Research 1 (Senior Capstone 1)	3	3	3
	*New	PHY 4911 - Directed Independent Research 2 (Senior Capstone 2)	3	3	3
TOTAL HOURS			120	120	120

Program: Physics **CIP:** 40.0801
Offered At: FAMU, FAU, FIU, FSU, UCF, UF, UNF, USF, UWF **Track:** 1/3
Program Length: 120 Cr. Hrs.

REVISED 5/27/09
 Revised 2/24/2010

LOWER LEVEL COURSES

	Cr. Hrs.
CHMX045C	4
OR— CHMX040	3
&— CHMX041	3
OR— CHMX045/X045L	4
&— CHMX046C	4
OR— CHMX046/X046L	4
&— MACX311	4
OR— MACX281	4
&— MACX312	4
OR— MACX282	4
&— MACX313	4
OR— MACX283	4
&— PHYX048/X048L	4
&— PHYX049/X049L	4
OR— PHYX048C	4
&— PHYX049C	4

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

Program: Digital Arts/Digital Media **CIP:** 50.0102
Digital Arts and Sciences/ Digital Media Design **Track:** 1/2
Offered At: UF FGCU **Program Length:** 120 Cr. Hrs.

LOWER LEVEL COURSES

	Cr Hours
IDSX680	3
& MAGX147 <u>MACX140 (1, 2)</u> <u>or MACX105 (2)</u>	3
<u>Select from the following Group of Courses:</u>	
Take any of the following courses (1) & ARHX050 <u>or ARHX000</u> <u>or</u> ARHX051	3
OR	
Take all of the following courses (2) & ARHX050 & ARHX051	6
<u>& Select from the following Group of Courses</u>	3
Take any of the following courses (1) ARTX201C or ARTX201 or ARTX203C Or ART203 or ARTX300C or ARTX300 Or ARTX301C or ARTX301	
OR	
Take all of the following courses (2) & ARTX201C <u>or ARTX201</u> & ARTX203C <u>or ARTX203</u> & ARTX300C <u>or ARTX300</u> & ARTX301C <u>or ARTX301</u>	12
& ARHX051 (2) & ARTX932C	3
<u>& Select one course from the following options (1)</u> <u>CAP1000-CAP2999 or COP1000-COP2999</u> <u>Or CGS1000-CGS2999</u>	3

- (1) UF Requirement
 (2) FGCU Requirement

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 21	Minus Number of Proposed Common Prerequisite Credit Hours (FGCU's recommendations)
+ 3	Plus Number of Common Prerequisites in General Education Core
42	Equals Number Credit Hours to complete the 33 remaining hours of General Education

Program: Digital Arts/Digital Media
Digital Interactive Systems/Visual Language
Offered At: UCF

CIP: 50.0102
Track: 2/2
Program Length: 120 Cr. Hrs.

LOWER LEVEL COURSES

	Cr Hours
MACX105	3
& ARHX050	3
& DIGX000	3
& DIGX030C	3
& DIGX109C	3
& DIGX500C	3
& GPX500C	
& CGSX100C or CGSX100	3

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 21	Minus Number of Proposed Common Prerequisite Credit Hours
+ 3	Plus Number of Common Prerequisites in General Education Core
42	Equals Number Credit Hours to complete the 33 remaining hours of General Education

Application to **Modify** Currently Approved Common Prerequisites

Degree Program Name: Digital Media Design CIP Code: 50.0102

Anticipated Degree Total Hours: 120

Are other degree programs under this name currently found in the Common

Prerequisite Manual (CPM)? Yes No

If yes, under what CIP code: same

Institution Requesting Modification: Florida Gulf Coast University

Name of Contact Person: Patricia Fay

Email Address of Above: pfay@fgcu.edu

Phone Number: 239-590-7229

Please list the current common prerequisites and any corresponding approved alternative courses. Please add rows to the table as appropriate.

CIP: 50.0102 Track: 1/2

Current Primary Prerequisites	Current Alternative Course(s)
IDSX680	
MACX147	
ARHX050	
ARHX051	
ARTX201C	
ARTX203C	
ARTX300C	
ARTX301C	
ARTX932C	

- Does this modification of currently approved common prerequisites involve adding another track to the currently approved prerequisites within the *Common Prerequisite Manual*?

No Yes

Maybe - depends upon Discipline Committee Recommendation

If yes or maybe above, please provide justification regarding the significant differences in your curriculum that would necessitate a new track with different common prerequisites:

Our proposed program in B.A. in Digital Media Design will build upon traditional content grounded in Art. The modification of currently approved

common prerequisites we are requesting below will ensure that our students will be prepared to be successful in the required upper division courses. In summary, we are requesting the following:

- Deletion of IDS x680 as this course does not exist in the SCNS inventory.
- Deletion of ARTx932c as special topics courses do not necessarily ensure that content is related to the field of study for this program.
- Removal of MAC X147 and inclusion of MAC X105 or MAC X140.
- Addition of acceptable substitutions for remaining common prerequisites.

2. If adding a common prerequisite course or course substitute, please provide the following information. You can find details about individual courses at the hyperlink to the Statewide Course Numbering System ([SCNS](#)). Type in the prefix and four digit number of the proposed course. The hyperlink leads to a page with two worksheets: statewide course detail and institutions. Clicking on the institutions page will identify the institutions offering the course. Be aware that there may be institutions besides Florida College System (FCS) and State University System (SUS) institutions listed.

Add rows as necessary.

The following table describes the complete list of common prerequisites needed at FGCU.

Proposed Course	Title of Proposed Course	# FCS Currently Offering Course	# SUS Currently Offering Course	Justification for the addition or deletion
Delete IDS X680				This course is not in the SCNS Inventory
Delete ART X932C				Special topics courses do not ensure that content is related to the field of study
MAC X105 or MAC X140	College Algebra	>10	10	The content of these courses will provide students with the knowledge that would better prepare them to be successful in required courses in the program. We are requesting these

				courses in place of MAC X147.
ARH X050	History of Visual Arts I	>10	10	Keep this course
ARHX051	ARHX051 History of Visual Arts II	>10	10	Keep this course
ARTX201C or ARTX201	ARTX201C or ARTX201 Methods and Concepts I	>10	10	Adding an acceptable substitution based on the course being offered without a "C" designation at FGCU
ARTX203C or ART X203	ARTX203C or ART X203 Methods and Concepts II	>10	9	Adding an acceptable substitution based on the course being offered without a "C" designation at FGCU
ARTX203C or ART X203	ARTX203C or ART X203 Methods and Concepts II	>10	10	Adding an acceptable substitution based on the course being offered without a "C" designation at FGCU
ARTX300C or ART X300	ARTX300C or ART X300 Drawing I	>10	8	Adding an acceptable substitution based on the course being offered without a "C" designation at FGCU
ARTX301C or ART X301	ARTX301C or ART X301 Drawing II	>10	7	Adding an acceptable substitution based on the course being offered without a "C" designation at FGCU

3. If your request includes course(s) that are offered currently at 3 or less FCS institutions, please provide a justification as to why these courses are critical for a student's success in your upper division. **N/A**

4. If your request includes courses that are offered currently only at your institution, do you have the same amount of elective credit hour space in your upper division so that the associate in arts transfer student is held harmless in excess hours and time? **N/A**

a. Yes_____ b. No_____

5. If your request includes courses that are offered only at your institution, are you willing and able to offer these courses online or during the summer so that transfer students may pick up the courses without delaying admission for the fall? **N/A**

a. Yes_____ b. No_____

6. Is the credit hour total for required work more than 24?

No Yes

If yes, how do you anticipate students meeting general education requirement:

- a. _____ Course(s) are anticipated to be "core" general education;
- b. _____ Anticipate that institutions will have course(s) as part of their institution's general education program.
- c. _____ Other:

Note:

Application to **Modify** Currently Approved Common Prerequisites

Degree Program Name: Architecture B. Des. CIP Code: 04.0201

Anticipated Degree Total Hours: 120

Are other degree programs under this name currently found in the Common Prerequisite Manual (CPM)? Yes No

If yes, under what CIP code? _____

Institution Requesting Modification: University of Central Florida

Name of Contact Person: Keisha Hoerrner

Email Address: keisha.hoerrner@ucf.edu Phone Number: 407-823-3193

Please list the current common prerequisites and any corresponding approved alternative courses. Please add rows to the table as appropriate.

CIP: 04.0201 Track: _____

Current Primary Prerequisites	Current Alternative Course(s)
ARCX702	
ARCX301	
ARCX302	
ARCX701	
ARCX201	
ARCX303	
ARCX304	
ARCX461 or ARCX470 or ARCX462	
ARCX501 or ARCX580	ARCX580, Structures I, is a common program prerequisite for all institutions except UF.
MACX233 or MACX311	
ARCX180 or ARCX057 or ARCX058	
PHYX053	

1. Does this modification of currently approved common prerequisites involve adding another track to the currently approved prerequisites within the *Common Prerequisite Manual*?

No Yes

Maybe - depends upon Discipline Committee recommendation _____

If yes or maybe above, please provide justification regarding the significant differences in your curriculum that would necessitate a new track with different common prerequisites:

2. If adding a common prerequisite course or course substitute, please provide the following information. You can find details about individual courses at the hyperlink to the Statewide Course Numbering System ([SCNS](#)). Type in the prefix and four digit number of the proposed course and select the Search button. The resulting hyperlink of the course number leads to a page with two tabs: statewide course detail and institutions. Clicking on the institutions tab will identify the institutions offering the course.

Please add rows to the table as appropriate.

Proposed Course	Title of Proposed Course	# FCS Currently Offering Course	# SUS Currently Offering Course	Justification for the addition or deletion
MACX114	Trigonometry	~28	9	Course substitution for MACX233 or MACX311 requirement
MACX140	Precalculus Algebra	~27	7	Course substitution for MACX233 or MACX311 requirement
ARC3503	Architectural Structures	0	3	Course substitution for ARCX501 (offered by 5 FCS and 1 SUS)

The UCF Architecture B.Des. is a 2+2 partnership program with Valencia College (VC). The lower level CPP courses listed above, with the exception of ARCX501 or ARCX580, are offered through VC. Since the VC Architecture Pre-Major requires

students to complete MAC1114 and MAC1140, asking them to complete an additional math course at UCF would lead them to exceed the 120 hours required for the degree. For the math requirement, we are requesting to substitute [MACX233 or MACX311] with [MAC1114 or MAC1140]. In addition, since VC does not offer ARCX501 or ARCX580, UCF offers ARC3503 (Architectural Structures) as part of our advanced core. (Please note that these exceptions appear to match the exceptions already granted (ARC3503) or are similar to current practices (their plan of study reflects MAC1147) at UF. At its inception, the UCF Architecture B.Des. was modeled after UF's Architecture program, which likely accounts for this alignment.

3. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in your upper division. N/A
4. If your request includes courses that are offered currently only at your institution, do you have enough elective credit hour space in your upper division curriculum so that the associate in arts transfer student can complete the courses and still be held harmless in excess hours and time?
 - a. Yes_____ b. No_____ N/A
5. If your request includes courses that are offered only at your institution, are you willing and able to offer these courses online or during the summer so that transfer students can complete the courses without delaying admission for the fall?
 - a. Yes_____ b. No_____ N/A
6. Is the credit hour total for required prerequisite coursework more than 24 credit hours?
 - a. Yes__X__ b. No_____

If yes, how do you anticipate students meeting the general education requirement?

- b. _____ Course(s) are anticipated to be "core" general education
- c. _____ Course(s) are anticipated to be part of most institutions' general education program
- d. __X__ Other (please specify): Since we're only requesting course substitutions and we're not modifying the total number of CPP hours, these changes do not impact general education requirements.

Program: Senior Living Management **CIP:** 51.0718
 B.S. **Track:** 2/6
Offered At: UCF **Program Length:** 120 Cr. Hrs.

LOWER LEVEL COURSES

Cr Hours

- MACX105C or MACX105 3 College Algebra
- & CGSX100C 3 Computer Fundamentals in Business
- & STAX023 3 Statistics Methods I
- & ECOX023 3 Microeconomics

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
-	12 Minus Number of Proposed Common Prerequisite Credit Hours
+	3 Plus Number of Common Prerequisites in General Education Core
51	Equals Number Credit Hours to complete the 33 remaining hours of General Education



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Dr. Manuel Rivera	Email: Manuel.Rivera@ucf.edu Phone: 407-903-8210
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges:: Dr. Melody Bowdon Interim Vice Provost for Teaching and Learning & Interim Dean, College of Undergraduate Studies	<div style="font-size: 48px; margin-bottom: 10px;">X</div> <hr/> First Name, Last Name Title: Email: Melody.Bowdon@ucf.edu Phone: 407-823-2374
Requesting institution:	

II. Program Information

Title of Degree Program: Senior Living Management, B.S.	CIP Code: 51.0718	Track (if appropriate):
Does this proposal align with a current track?	Yes: N/A	No:
Is this program approved for limited access?		XX
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): None		

III. Proposed Changes – Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary).

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
Current Approved Common Prerequisite Credit Hours		

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	<u>Justification for the addition or deletion of course</u>
MAC X105 or MAC X105C	3	>15	11	Fundamental analytic skills needed for upper-division course requirements
CGS X100C	3	>14	7	Computer fundamentals with business applications



Common Prerequisite Proposal

STA X023	3	>14	11	Foundational statistical and applied research concepts
ECO X023	3	>15	11	Microeconomics concepts needed for application in upper-level courses and required internships

- C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.

If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:

N/A

- D. Please explain how any additions or deletions of common prerequisites affect programmatic accreditation issues:

N/A

IV. Review of Completion within 60 semester hours.

A. Course Prerequisites, if known, for Common Prerequisite

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
Number of College Level Prerequisites for Common Prerequisite Courses		

B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 12	Minus Number of Proposed Common Prerequisite Credit Hours
-	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+ 6	Plus Number of Common Prerequisites in General Education Core MAC 1105 and STA 2023
30	Equals Number Credit Hours to complete remainder of General Education

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

V. Supporting Documentation

1/31/2019



Common Prerequisite Proposal

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Date of Submission to the Board of Governors or the Division of Florida Colleges: _____ 5/3/2019 _____

Program: Clinical Laboratory Sciences: Track: Medical Lab Technician to MLS **CIP:** 51.1005

Track: 2 of 2

Offered At: UWF

Program Length: 120 Cr. Hrs.

LOWER LEVEL COURSES

<u>BSCX085C or BSCX085/X085L</u>	<u>4</u>	<u>Anatomy & Physiology I with Lab</u>
<u>Or BSCX093C or BSCX093/X093L</u>		
<u>Or PCBX703C or PCBX703/703L</u>		<u>Human Physiology I with lab</u>
<u>& BSCX010C or BSCX010/X010L</u>	<u>4</u>	<u>General Biology I with lab</u>
<u>Or BSCX086C or BSCX086L</u>		<u>Anatomy & Physiology II with Lab</u>
<u>Or BSCX094C or BSCX094/X094L</u>		
<u>Or PCBX011C or PCBX134/X134L</u>		
<u>& CHMX045/X045L or CHMX045C</u>	<u>4</u>	<u>General Chemistry I with lab</u>
<u>& CHMX046/X046L or CHMX046C</u>	<u>4</u>	<u>General Chemistry II with lab</u>
<u>& CHMX210/X210L or CHMX210C</u>	<u>4</u>	<u>Organic Chemistry I with lab</u>
<u>& STAX014 or STAX023 or STAX024 or STAX321 3</u>		<u>Statistics</u>
<u>& MCBX013C</u>	<u>4</u>	<u>Intro Microbiology with lab</u>
<u>Or MCBX020C or MCBX020/X020L</u>		
<u>Or MCBX23/X023L</u>		
<u>Or MCBX010C or MCBX010/X010L</u>		

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 27	Minus Number of Proposed Common Prerequisite Credit Hours
+ 6	Plus Number of Common Prerequisites in General Education Core
39	Equals Number Credit Hours to complete the 29 remaining hours of General Education

Application to **Modify** Currently Approved Common Prerequisites

Degree Program Name: Clinical Laboratory Sciences CIP Code: 51.1005

Anticipated Degree Total Hours: 120

Are other degree programs under this name currently found in the Common Prerequisite Manual (CPM)? _____ Yes x _____ No

If yes, under what CIP code: _____

Institution Requesting Modification: University of West Florida _____

Name of Contact Person: Katie Cavnar

Email Address of Above: kcavnar@uwf.edu Phone Number: (850) 474-2887

Please list the current common prerequisites and any corresponding approved alternative courses. Please add rows to the table as appropriate.

CIP: CIP 51.1005 Track: **Clinical Laboratory Sciences**

Current Primary Prerequisites	Current Alternative Course(s)
BSCX010C	Table from common prerequisite manual attached
BSCX085C	
BSCX086C	
CHMX045C	
CHMX046C	
CHM2210C	
CHM2211C	
STA2023	
MCB2010C	

- Does this modification of currently approved common prerequisites involve adding another track to the currently approved prerequisites within the *Common Prerequisite Manual*?

No _____ Yes X

Maybe - depends upon Discipline Committee Recommendation _____

If yes or maybe above, please provide justification regarding the significant differences in your curriculum that would necessitate a new track with different common prerequisites:

The new track is for students who have trained as medical laboratory technicians (MLTs). It aligns better with the MLT curriculum at Florida colleges to streamline the time to graduation with a BS degree, and minimize excess credit hours. This track recognizes the content of the MLT curriculum, which is heavy in cell structure, physiology and chemistry. It eliminates the requirement for Organic Chemistry II/L. It eliminates the requirement for Anatomy & Physiology II/L.

The proposed common prerequisites for the MLT to MLS track are listed in this table.

Proposed Primary Prerequisites	Alternative Course(s)
BSCX085C	BSCX093C or BSCX093/X093L or PCBX703C or PCBX703/X703L
BSCX010C	BSCX010/X010L or BSCX086C or BSCX086/X086L or BSCX094C or BSCX094/X094L or or BSCX1011C or BSCX1011/X1011L or PCBX011C or PCBX703C or PCBX703/X703L or PCBX134/X134L
CHMX045C	CHMX045/X045L
CHMX046C	CHMX046/X046L
CHMX210C	CHMX210/X210L
STAX014	STAX023 or STAX024 or STAX0321
MCBX013C	MCBX020C or MCBX023C or MCBX010C or MCBX013/X013L or MCBX020/X020L or MCBX023/X023L or MCBX010/X010L

2. If adding a common prerequisite course or course substitute, please provide the following information. You can find details about individual courses at the hyperlink to the Statewide Course Numbering System ([SCNS](#)). Type in the prefix and four digit number of the proposed course. The hyperlink leads to a page with two worksheets: statewide course detail and institutions. Clicking on the institutions page will identify the institutions offering the course. Be aware

that there may be institutions besides Florida College System (FCS) and State University System (SUS) institutions listed. **Not applicable**

Add rows as necessary.

Proposed Course	Title of Proposed Course	# FCS Currently Offering Course	# SUS Currently Offering Course	Justification for the addition or deletion

1. If your request includes course(s) that are offered currently at 3 or less FCS institutions, please provide a justification as to why these courses are critical for a student's success in your upper division. **Not applicable**

2. If your request includes courses that are offered currently only at your institution, do you have the same amount of elective credit hour space in your upper division so that the associate in arts transfer student is held harmless in excess hours and time?
 - a. Yes_____ b. No_____ **Not applicable**

3. If your request includes courses that are offered only at your institution, are you willing and able to offer these courses online or during the summer so that transfer students may pick up the courses without delaying admission for the fall?
 - a. Yes_____ b. No_____ **Not applicable**

4. Is the credit hour total for required work more than 24?
 _____No **X**_____Yes

If yes, how do you anticipate students meeting general education requirement:

- a. _____ Course(s) are anticipated to be "core" general education;

- b. Anticipate that institutions will have course(s) as part of their institution's general education program.
- c. Other:

Program:	<u>Medical Technology/Clinical Laboratory Sciences</u>	CIP:	<u>51.1005</u>
		Track:	<u>1</u>
Offered At:	<u>USF</u>	Program Length:	<u>120 Cr. Hrs.</u>
	<u>SFC</u>		<u>125</u>
	<u>FGCU* UCF*</u>		<u>126</u>
	<u>UWF*</u>		<u>127</u>

UNF offers its Medical Lab sciences program under a different CIP: 26.0101.
 Duplication removed 10/23/2013
 REVISED 10/28/15
 Technical revision 7/5/2018

LOWER LEVEL COURSES

	Cr. Hrs.
BSCX010C	4
Or- BSCX011C	4
Or- PCBX011C	4
Or- PCBX013C	4
Or- Take both courses:	
& BSCX010/X010L	4
Or- Take both courses:	
& BSCX011	3
& BSCX11L	1
Or- Take both courses:	
& PCBX013/X013L	4
BSCX083C	4
Or- BSCX085C	4
Or- ZOOX733C (1)	4
Or- ZOOX731C	4
Or- PCBX510C (1)	4
Or- Take both courses:	
& BSCX083/X083L	4
Or- Take both courses:	
& BSCX085/X085L	4
Or- Take both courses: (1)	
& ZOOX733/X733L	4
Or- Take both courses:	
& ZOOX731/X731L	4
Or- Take both courses: (1)	
& PCBX510/X510L	4
BSCX094C	4
Or- BSCX086C	4
Or- PCBX703C	4
Or- Take both courses:	
& BSCX094/X094L	4
Or- Take both courses:	
& BSCX086/X086L	4
Or- Take both courses:	
& PCBX703/X703L	4
Or- Take both courses:	
& PCBX134/X134L	4
CHMX045C	4
Or- Take both courses:	
& CHMX045/X045L	4
CHMX046C	4
Or- Take both courses:	
& CHMX046/X046L	4
CHMX210C	4
Or- Take both courses:	
& CHMX210/X210L	4
CHMX211C	4
Or- Take both courses:	
& CHMX211/X211L	4
MCBX013C	4
Or- MCBX020C	4
Or- MCBX023C	4
Or- MCBX010C (1)	4
Or- Take both courses:	
& MCBX013/X013L	4
Or- Take both courses:	
& MCBX020/X020L	4
Or- Take both courses:	
& MCBX023/X023L	4
Or- Take both courses: (1)	
& MCBX010/X010L	4
STAX014	3
Or- STAX023	3
Or- STAX024	3
Or- STAX321	3

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

(1) UWF does not accept this course as prerequisite.
 Institutions require a 'C' or better in common prerequisite coursework.
 * Limited Access.

Program: Community Health - Health Studies

CIP: 51.2208

Track: 1 of 2

Offered At: UF

Program Length: 120 Cr. Hrs.

(UNF Community Health track in Health Science 51.0000)

REVISED 5/27/09

Deleted FGCU 2/28/2018.

LOWER LEVEL COURSES

	Cr. Hrs.
or- BSCX093C (1)	3 4
& or- APKX100C	4
& or- BSCX094C (2)	4
& or- APKX105C	4
& or- CHMX045C (3)	4
& or- CHMX045 & CHMX045L (3)	4
& or- MCBX013C (4) BSCX010/X010L	4
& or- MCBX000/X000L BSCX010C	4
& or- MAGX105-MACX147 (4)	3 4
& or- MAGX147 MACX311	3 4
& PSY PSYX012	3
& STAXXXX	3
or- STAX023	3

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

- (1) Or any Human Anatomy and Physiology I and lab
 (2) Or any Human Anatomy and Physiology II and lab
 (3) ~~CHM must be a General Chemistry~~
 (4) ~~Or any Microbiology and lab~~
 (5 4) ~~MAGX147 is a prerequisite for CHMX045 for UF AND we believe this is an essential common prerequisite and foundation for other science-based courses.~~

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 26	Minus Number of Proposed Common Prerequisite Credit Hours
+ 9	Plus Number of Common Prerequisites in General Education Core
43	Equals Number Credit Hours to complete the 27 remaining hours of General Education

~~NOTE: A grade of C or better is required for all common prerequisites.~~

Program: Community Health - Community Health Promotion

CIP: 51.2208

Offered At: UF

Track: 2 of 2

Program Length: 120 Cr. Hrs.

(UNF Community Health track in Health Science 51.0000)

REVISED 5/27/09

Deleted FGCU 2/28/2018.

LOWER LEVEL COURSES

	Cr. Hrs.
BSCX093C (1)	3 4
<u>Or BSCX093/X093L</u>	
Or APKX100C	
& BSCX094C (2)	4
<u>Or BSCX094/X094L</u>	
Or APKX105C	
& CHMX045C (3) BSCX005/X005L	4
<u>Or BSCX005C</u>	
Or CHMX045 (3) BSCX010/X010L	
<u>Or BSCX010C</u>	
& MGBX013C (4)	
<u>Or MGBX000/X000L</u>	
& MAGX105-MACX105	3
Or MAGX147 MACX147	3 4
& PSYX012-	3
& STAXXXX	3
Or STAX023	3

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

~~(1) — Or any Human Anatomy and Physiology I and lab~~

~~(2) — Or any Human Anatomy and Physiology II and lab~~

~~(3) — CHM must be a General Chemistry~~

~~(4) — Or any Microbiology and lab~~

~~(5 4) — MACX147 is a prerequisite for CHMX045 for UF AND we believe this is an essential common prerequisite and foundation for other science-based courses.~~

~~NOTE: A grade of C or better is required for all common prerequisites.~~

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 26	Minus Number of Proposed Common Prerequisite Credit Hours
+ 9	Plus Number of Common Prerequisites in General Education Core
43	Equals Number Credit Hours to complete the 27 remaining hours of General Education



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Dr. Jalie Tucker, Department Chair	Email: jaliet@ufl.edu Phone: 352.294.1812
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges): Dr. Angela Lindner, Associate Provost for Undergraduate Affairs	X <hr/> First Name, Last Name Title: Email: alindner@aa.ufl.edu Phone:
Requesting institution: University of Florida	

II. Program Information

Title of Degree Program: Health Education	CIP Code: 51.2208	Track (if appropriate): Community Health Promotion
Does this proposal align with a current track?	Yes: yes	No:
Is this program approved for limited access?	no	
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): UNF offers community health in CIP 51.0000		

III. Proposed Changes – Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary).

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
BSCx093c/APKx100c	Anatomy and Physiology I	4
BSCx094c/APKx105c	Anatomy and Physiology II	4
MACx105	College Algebra	3
PSYx012	General Psychology	3
STAx023	Statistics	3
Current Approved Common Prerequisite Credit Hours		17

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
CHMx045+L	4			Deletion - Course not required for community health track



Common Prerequisite Proposal

MCBx013c or MCBx000+L	4			Deletion - Course not required for community health track
BSCx005+L or BSCx010+L	4			Addition – course required for community health track, replacing MCB requirement

- C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.

If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:

- D. Please explain how any additions or deletions of common prerequisites affect programmatic accreditation issues:

The proposed changes listed above are currently in existence at UF and we are simply seeking to correct an omission in the common prerequisite manual. These changes do not affect programmatic accreditation issues.

IV. Review of Completion within 60 semester hours.

A. Course Prerequisites, if known, for Common Prerequisite

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
none		
Number of College Level Prerequisites for Common Prerequisite Courses		

B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 21	Minus Number of Proposed Common Prerequisite Credit Hours
- 0	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+21	Plus Number of Common Prerequisites in General Education Core
60	Equals Number Credit Hours to complete remainder of General Education



Common Prerequisite Proposal

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

V. Supporting Documentation

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Date of Submission to the Board of Governors or the Division of Florida Colleges: _____



Common Prerequisite Proposal

I. Contact Information

Requesting Chief Program Chair: Dr. Jalie Tucker, Department Chair	Email: jaliel@ufl.edu Phone: 352.294.1812
Requesting Chief Academic Officer or University Common Prerequisite Liaison (person submitting this proposal to the Board of Governors or Division of Florida Colleges): Dr. Angela Lindner, Associate Provost for Undergraduate Affairs	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">X</div> <hr/> First Name, Last Name Title: Email: alindner@aa.ufl.edu Phone:
Requesting institution: University of Florida	

II. Program Information

Title of Degree Program: Health Education	CIP Code: 51.2208	Track (if appropriate): Health Studies
Does this proposal align with a current track?	Yes: yes	No:
Is this program approved for limited access?	no	
Approved total program hours to the baccalaureate degree: 120		
Other Institutions offering the same program (CIP and Tracks or different CIP/Track if the same major): UNF offers community health in CIP 51.0000		

III. Proposed Changes – Add rows as necessary

A. All Current Approved Common Prerequisites (add rows if necessary).

Current Approved Common Prerequisites		
Course Prefix	Course Name	Cr. Hrs.
BSCx093c/APKx100c	Anatomy and Physiology I	4
BSCx094c/APKx105c	Anatomy and Physiology II	4
CHMx045+L	General Chemistry	4
PSYx012	General Psychology	3
STAx023	Statistics	3
Current Approved Common Prerequisite Credit Hours		17

B. All Proposed Common Prerequisites and Commonality of Course Offerings (add rows if necessary)

Course Prefix	Credit Hours	Number of FCS Currently Offering Course	Number of SUS Currently Offering Course	Justification for the addition or deletion of course
MAC140/MACx147	3-4			Addition of MACx140 with MACx147. This track accepts MACx140 or MACx147
MCBx013c or MCBx000+L	4			Deletion - Course not required for health studies track



Common Prerequisite Proposal

BSCx010+L	4			Addition – course required for health studies track, replacing MCB requirement

- C. If your request includes course(s) that are offered currently at three or fewer FCS institutions, please provide a justification as to why these courses are critical for a student's success in the baccalaureate degree program:

Course(s) limited to 3 or less FCS institutions	Justification as to why these courses are critical for a student's success in the baccalaureate program.

If your request includes courses that are offered only at your institution, explain what options are available to students at other institutions for completing the required courses:

- D. Please explain how any additions or deletions of common prerequisites affect programmatic accreditation issues:

The proposed changes listed above are currently in existence at UF and we are simply seeking to correct an omission in the common prerequisite manual. These changes do not affect programmatic accreditation issues.

IV. Review of Completion within 60 semester hours.

A. Course Prerequisites, if known, for Common Prerequisite

College Level Prerequisites for Common Prerequisite Courses		
Course Prefix for	College Level Prerequisites	Cr. Hrs.
CHMx045	MACx147 and chemistry exam placement/completion of CHMx025	6
Number of College Level Prerequisites for Common Prerequisite Courses		

B. Review of Coursework

Review of Common Prerequisite Completion within 60 hours	
60	Credit Hours for AA Degree
- 25	Minus Number of Proposed Common Prerequisite Credit Hours
- 5	Minus Number of College Level Course Prerequisites for Common Prerequisite Courses (if known)
+ 25	Plus Number of Common Prerequisites in General Education Core
55	Equals Number Credit Hours to complete remainder of General Education

If the number of credit hours to complete remainder of general education is less than 24 credit hours, explain how students will meet the requirements of the common prerequisites:

V. Supporting Documentation

1/31/2019



Common Prerequisite Proposal

Include the following with this proposal:

- The program page from the Common Prerequisite Manual, if applicable.
- The program requirements for the baccalaureate degree.

Date of Submission to the Board of Governors or the Division of Florida Colleges: _____

HEALTH EDUCATION AND BEHAVIOR | COMMUNITY HEALTH PROMOTION

The Department of Health Education and Behavior, with a foundation in the social and biological sciences, offers coursework focused on health information and theory application. Students learn techniques to promote healthy lifestyle choices in individual and group settings, with special attention given to diversity and culturally appropriate health education methodologies.

ABOUT THIS PROGRAM

College: [Health and Human Performance](#)

Degree: Bachelor of Science in Health Education

Credits for Degree: 120

Specializations: [Community Health Promotion](#) | [Health Studies](#)

Additional Information

Related Health Education and Behavior Programs

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Health Education degree program allows students maximum flexibility to choose department specialization coursework during the junior and senior years that relates to personal interests in the health field. Students can focus their coursework on interest areas in health education and health promotion in community, clinical or worksite settings or in health studies as they prepare for professional health occupations.

RELATED HEALTH EDUCATION AND BEHAVIOR PROGRAMS

- [Combined Degree](#)
- [Bachelor of Science in Health Education and Behavior, Community Health Promotion, UF Online](#)
- [Health Promotion minor](#)
- [Health Promotion minor, UF Online](#)

COMMUNITY HEALTH PROMOTION

Students with a primary interest in community health education or worksite health promotion should select the Community Health Promotion specialization. Coursework in this specialization is focused on illness and disease prevention among special target groups within a particular community, with the ultimate goal of providing practical health information to diverse population groups through the use of behavioral interventions. Community health promotion specialists generally find employment in local, state or national government health agencies (state or county health departments, CDC, NIH) and in voluntary organizations such as the American Cancer Society, the March of Dimes and American Heart Association. Worksite health promotion specialists find employment opportunities within diverse small and large businesses and organizations.

This specialization is also appropriate for students planning to pursue graduate programs in health education or related fields (community or public health, health administration, health policy and epidemiology and disease preventions).

Students majoring in health education and behavior are also eligible for the Bachelor/Master of Science combined degree program, thus receiving both degrees within approximately five years. Students interested in this program should schedule an appointment with the department academic advisor before the start of their junior year. More information about the health education and behavior [BS/MS program](#).

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

SEMESTER 1

- Complete 2 of 6 critical-tracking courses: [APK 2100C](#), [APK 2105C](#), [BSC 2005/BSC 2005L](#), [MAC 1105](#) or [MAC 1140](#) or [MAC 1147](#), [PSY 2012](#), [STA 2023](#)
- 2.5 GPA required for all critical-tracking courses

- 2.0 UF GPA required

SEMESTER 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 3

- Complete 1 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 4

- Complete all 6 critical-tracking courses, including labs
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required (and maintained through semester 8)

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Semester One		Credits
<u>IDS 1161</u>	What is the Good Life (Gen Ed Humanities)	3
<u>MAC 1105</u>	Basic College Algebra (Critical Tracking ; Gen Ed Mathematics; or higher level MAC course)	3
<u>PSY 2012</u>	General Psychology (Critical Tracking ; State Core Gen Ed Social and Behavioral Sciences)	3
<u>State Core Gen Ed Composition</u> ; Writing Requirement		3
Elective (Gen Ed International)		3

Credits **15****Semester Two**

<u>BSC 2005</u> & <u>2005L</u>	Biological Sciences and Laboratory in Biological Sciences (Critical Tracking ; State Core Gen Ed Biological and Physical Sciences)	4
<u>STA 2023</u>	Introduction to Statistics 1 (Critical Tracking ; State Core Gen Ed Mathematics)	3
Select one (complete before the end of Semester Five):		3
<u>SYG 2000</u>	Principles of Sociology (Gen Ed Social and Behavioral Sciences)	
<u>SYG 2010</u>	Social Problems (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition; Writing Requirement		3
<u>State Core Gen Ed Humanities</u>		3

Credits **16****Semester Three**

Select one (complete before the end of Semester Five):		3
<u>AEC 3030C</u>	Effective Oral Communication	
<u>SPC 2608</u>	Introduction to Public Speaking	
<u>APK 2100C</u>	Applied Human Anatomy with Laboratory (Critical Tracking ; Gen Ed Biological Sciences)	4
Electives (Writing Requirement: 6,000 words)		8

Credits **15****Semester Four**

<u>APK 2105C</u>	Applied Human Physiology with Laboratory (Critical Tracking ; Gen Ed Biological Sciences)	4
<u>HUN 2201</u>	Fundamentals of Human Nutrition (Gen Ed Biological Sciences; complete before the end of Semester five)	3
Electives (Gen Ed Diversity and Writing Requirement: 6,000 words)		7

	Credits	14
Semester Five		
<u>HSC 3032</u>	Foundations of Health Education (Critical Tracking)	3
<u>HSC 3102</u>	Personal and Family Health (Critical Tracking ; Gen Ed Social and Behavioral Sciences)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Six		
<u>HSC 3201</u>	Community and Environmental Health (Critical Tracking)	3
<u>HSC 4713</u>	Planning and Evaluating Health Education Programs (Critical Tracking)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Seven		
<u>HSC 4302</u>	Methods and Materials in Health Education (Critical Tracking)	3
<u>HSC 4800</u>	Health Education Professional Development (Critical Tracking)	3
HSC specialization courses		6
Elective (3000/4000 level)		3
	Credits	15
Semester Eight		
<u>HSC 4876</u>	Internship in Health Education (Critical Tracking)	15
	Credits	15
	Total Credits	120

HSC Specialization Courses: 18 Credits

Select 18 credits of the following:

18

<u>HSC 3301</u>	Health Education in Elementary Schools
<u>HSC 4133</u>	Human Sexuality Education
<u>HSC 4134</u>	Emotional Health and Counseling
<u>HSC 4143</u>	Drug Education
<u>HSC 4174</u>	Behavioral and Environmental Determinants of Obesity
<u>HSC 4232C</u>	Exercise Therapy, Adapted Physical Activity and Health
<u>HSC 4233</u>	Patient Health Education
<u>HSC 4574</u>	Nutrition Education for Special Populations
<u>HSC 4579</u>	Women's Health Issues
<u>HSC 4593</u>	HIV/AIDS Education
<u>HSC 4623</u>	Minority Health Issues
<u>HSC 4624</u>	Trends in International Health
<u>HSC 4663</u>	Community Health Methods in Injury Prevention and Control
<u>HSC 4664</u>	Health Communication for Consumers
<u>HSC 4694</u>	Worksite Health Promotion
<u>HSC 4950</u>	Current Topics in Health Education

Students must see an advisor before registering for these three courses:

<u>HSC 4813</u>	Practicum in Health Education	1-3
<u>HSC 4905</u>	Individual Study	1-4

HSC 5XXX: Any non-combined 5000-level course offered within the department

The Bachelor of Science in health education prepares students to work as a health education specialist in schools, government agencies, voluntary health organizations, philanthropic foundations, colleges

and universities, private-sector industry and healthcare settings. Health education specialists improve the health and well-being of individuals, families, groups and community populations.

Grounded in social, behavioral, biological and health sciences, the curriculum develops understanding of the causes and determinants of mortality and morbidity and develops specific competencies required of entry-level health education specialists. Graduates will be eligible to take the Certified Health Education Specialist examination governed by The National Commission for Health Education Credentialing, Inc.

BEFORE GRADUATING STUDENTS MUST

- Satisfactory performance on at least one major assignment or examination for each core course required for the degree, as determined by performance criteria developed specifically for the assignment.
- Satisfactory completion of the 15 credit health education internship ([HSC 4876](#)) as indicated on the final performance appraisal.
- Complete requirements for the baccalaureate degree, as determined by faculty.

STUDENTS IN THE MAJOR WILL LEARN TO

Student Learning Outcomes (SLOs)

Content

1. Identify and apply theories-based strategies for assessing individual and community needs for health education/promotion.
2. Identify and utilize appropriate theory-based models for planning effective health education/promotion programs.
3. Identify and apply a variety of theories, models and strategies for implementing health education/promotion programs.
4. Identify and apply methods and procedures appropriate for evaluating the effectiveness of health education/promotion programs.
5. Coordinate the provisions of health education/promotion services.
6. Describe and employ methods to obtain and disseminate health education/promotion information.
7. Identify and apply the major concepts and principles related to nutrition, substance abuse, emotional health, human sexuality and environmental health.

Critical Thinking

8. Examine situations, conditions and events to solve problems independently and to evaluate health

8. Examine situations, conditions and events to solve problems independently and to evaluate health education/promotion outcomes.

9. Select health education/promotion programs and services based on best-evidence.

Communication

10. Communicate health needs, concerns and resources to identified clients and consumers.

11. Communicate health concepts and health information using a variety of channels to individuals, families and groups from diverse backgrounds in various settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
<u>HSC 3032</u>							I	I	I	I	I
HSC 3133						R	R	I, R			R
HSC 3134		R				R	R, A	I, R			R
HSC 3143		R				R	R, A	I, R			R
<u>HSC 3201</u>					I	I	I, A	I	I, R	I, R	I, R
HSC 3232C		R									R
<u>HSC 3301</u>		I					R, A				I
<u>HSC 3537</u>								R			
HSC 3574	R	R					A	R			R
<u>HSC 4174</u>	R						R	R			R
<u>HSC 4233</u>	R							R	R		R
<u>HSC 4302</u>	R	R, A		R	R		R, A	R	R		R, A
<u>HSC 4579</u>							R	R			R

Courses	SLO	SLO	SLO	SLO	SLO	SLO	SLO	SLO	SLO	SLO	SLO	SLO 11
<u>HSC 4593</u>	1	B, A	B, A	4	5	6	R	8	9	10A		R, A
<u>HSC 4623</u>							R	R				R
<u>HSC 4624</u>		I, R										R
<u>HSC 4663</u>		R				R		R	R			R
<u>HSC 4694</u>	R	A						R	R			R
<u>HSC 4713</u>	I, A	I, A		I, A	R			R, A	R, A	R		R
<u>HSC 4800</u>						R			R	R		R
<u>HSC 4876</u>	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A	R	A	R, A		R, A

ASSESSMENT TYPES

- Assignments
- Projects
- Internship evaluations
- Exit survey
- Certified Health Education Specialist (CHES) exam
- Florida Department of Health HIV/AIDS 501 Client-Centered Counseling and Testing Certificate

HEALTH EDUCATION AND BEHAVIOR | HEALTH STUDIES

The Department of Health Education and Behavior, with a foundation in the social and biological sciences, offers coursework focused on health information and theory application. Students learn techniques to promote healthy lifestyle choices in individual and group settings, with special attention given to diversity and culturally appropriate health education methodologies.

ABOUT THIS PROGRAM

College: [Health and Human Performance](#)

Degree: Bachelor of Science in Health Education

Credits for Degree: 120

Specializations: [Community Health Promotion](#) | [Health Studies](#)

Additional Information

Related Health Education and Behavior Programs

To graduate with this major, students must complete all university, college, and major requirements.

The Bachelor of Science in Health Education degree program allows students maximum flexibility to choose department specialization coursework during the junior and senior years that relates to personal interests in the health field. Students can focus their coursework on interest areas in health education and health promotion in community, clinical or worksite settings or in health studies as they prepare for professional health occupations.

RELATED HEALTH EDUCATION AND BEHAVIOR PROGRAMS

- [Combined Degree](#)
- [Bachelor of Science in Health Education and Behavior, Community Health Promotion, UF Online](#)
- [Health Promotion minor](#)
- [Health Promotion minor, UF Online](#)

HEALTH STUDIES

Students who want in-depth knowledge of diverse health topics, with the intention to complete postbaccalaureate work in a professional health program such as medicine, dentistry, optometry, pharmacy, physician assistant, occupational therapy and physical therapy should select the health studies specialization. This specialization enables students to gain knowledge on a variety of health issues plaguing diverse population groups and to complete required prerequisite coursework for professional health programs. Students may also pursue graduate programs in health education or related fields (public health, health administration and epidemiology and disease prevention).

Additional science coursework is included within the semester plan to help students meet prerequisites for professional health programs. However, it is imperative that students review the requirements for targeted graduate programs as additional prerequisite coursework outside the curriculum for the major. Students should meet regularly with a pre-health advisor in the Academic Advising Center (100 Farrior Hall) as well as the department academic advisor to ensure adequate preparation for application to professional health programs. Ultimately, students are responsible for ensuring completion of the required prerequisites for their chosen professional health program.

Students majoring in health education and behavior are also eligible for the Bachelor/Master of Science combined degree program, thus receiving both degrees within approximately five years. Students interested in this program should schedule an appointment with the department academic advisor before the start of their junior year. More information about the health education and behavior [BS/MS program](#).

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

SEMESTER 1

- Complete 2 of 7 critical-tracking courses: [APK 2100C](#), [APK 2105C](#), [BSC 2010/BSC 2010L](#), [CHM 2045/CHM 2045L](#), [MAC 1140](#) or higher level course, [PSY 2012](#), [STA 2023](#)

- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 2

- Complete 2 additional critical-tracking courses
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 3

- Complete 2 additional critical-tracking courses
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required

SEMESTER 4

- Complete all 7 critical-tracking courses, including labs
- 2.8 GPA required for all critical-tracking courses
- 2.0 UF GPA required (and maintained through semester 8)

All general education requirements, including international (N) and diversity (D), must be completed prior to the final internship semester.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Semester One

Credits

CHM 2045
& 2045L

General Chemistry 1
and General Chemistry 1 Laboratory (**Critical Tracking**; State Core
Gen Ed Physical Sciences)

4

<u>HSC 3102</u>	Personal and Family Health (Gen Ed Social and Behavioral Sciences; complete before the end of Semester five)	3
<u>IDS 1161</u>	What is the Good Life (Gen Ed Humanities)	3
<u>MAC 1140</u>	Precalculus Algebra (Critical Tracking ; State Core Gen Ed Mathematics) ¹	3
<u>State Core Gen Ed Composition</u> ; Writing Requirement		3
Credits		16

Semester Two

<u>PSY 2012</u>	General Psychology (Critical Tracking ; State Core Gen Ed Social and Behavioral Sciences)	3
<u>STA 2023</u>	Introduction to Statistics 1 (Critical Tracking ; Gen Ed Mathematics)	3
Select one (complete before the end of Semester Five):		3
<u>SYG 2000</u>	Principles of Sociology (Gen Ed Social and Behavioral Sciences)	
<u>SYG 2010</u>	Social Problems (Gen Ed Social and Behavioral Sciences)	
Gen Ed Composition; Writing Requirement: 6,000 words		3
<u>CHM 2046</u> & <u>2046L</u>	General Chemistry 2 and General Chemistry 2 Laboratory (recommended elective)	4

Credits **16**

Semester Three

<u>APK 2100C</u>	Applied Human Anatomy with Laboratory (Critical Tracking ; Gen Ed Biological Sciences)	4
<u>BSC 2010</u> & <u>2010L</u>	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (Critical Tracking ; Gen Ed Biological Sciences)	4
Elective (Writing Requirement: 6,000 words)		3
<u>State Core Gen Ed Humanities</u>		3

Credits **14**

Semester Four

<u>APK 2105C</u>	Applied Human Physiology with Laboratory (Critical Tracking ; Gen Ed Biological Sciences)	4
<u>HUN 2201</u>	Fundamentals of Human Nutrition (Gen Ed Biological Sciences; complete before the end of Semester five)	3
Elective (Writing Requirement: 6,000 words)		3
Recommended electives: ²		5
<u>BSC 2011</u>	Integrated Principles of Biology 2	
<u>BSC 2011L</u>	Integrated Principles of Biology Laboratory 2	
<u>CHM 2210</u>	Organic Chemistry 1 ³	
Credits		15
Semester Five		
Select one:		3
<u>AEC 3030C</u>	Effective Oral Communication	
<u>SPC 2608</u>	Introduction to Public Speaking	
<u>HSC 3032</u>	Foundations of Health Education (Critical Tracking)	3
<u>HSC 3537</u>	Health and Medical Terminology (Critical Tracking)	3
HSC specialization course		3
Select one elective: ²		3
<u>PHY 2053</u> & <u>2053L</u>	Physics 1 and Laboratory for Physics 1	
<u>MCB 3020</u> & <u>3020L</u>	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	
Credits		15
Semester Six		
<u>HSC 4233</u>	Patient Health Education (Critical Tracking)	3
<u>HSC 4713</u>	Planning and Evaluating Health Education Programs (Critical Tracking)	3

HSC specialization course		3
Recommended electives: ²		6
PHY 2054	Physics 2	
PHY 2054L	Laboratory for Physics 2	
BCH 4024	Introduction to Biochemistry and Molecular Biology	
DEP 3053	Developmental Psychology (or other advanced psychology)	
	Credits	15
Semester Seven		
HSC 4302	Methods and Materials in Health Education (Critical Tracking)	3
HSC 4800	Health Education Professional Development (Critical Tracking)	3
HSC specialization course		6
Elective (genetics or science course) ²		3
	Credits	15
Semester Eight		
HSC 4876	Internship in Health Education ⁴	15
	Credits	15
	Total Credits	121

¹ Or higher level MAC course.

² These science courses may not be required for your career goal.

³ Students following a pre-health track may want to begin [CHM 2210](#) during the summer term prior to semester five.

⁴ Students must register for fulltime internship (15 credits) or part-time internship (6 credits). If the part-time internship option is selected, the student may concurrently register for up to 9 credits of electives or pre-health requisites.

HSC Specialization Courses: 12 Credits

Select 12 credits of the following:

<u>HSC 3201</u>	Community and Environmental Health
<u>HSC 3301</u>	Health Education in Elementary Schools
<u>HSC 4133</u>	Human Sexuality Education
<u>HSC 4134</u>	Emotional Health and Counseling
<u>HSC 4143</u>	Drug Education
<u>HSC 4174</u>	Behavioral and Environmental Determinants of Obesity
<u>HSC 4232C</u>	Exercise Therapy, Adapted Physical Activity and Health
<u>HSC 4574</u>	Nutrition Education for Special Populations
<u>HSC 4579</u>	Women's Health Issues
<u>HSC 4593</u>	HIV/AIDS Education
<u>HSC 4623</u>	Minority Health Issues
<u>HSC 4624</u>	Trends in International Health
<u>HSC 4663</u>	Community Health Methods in Injury Prevention and Control
<u>HSC 4664</u>	Health Communication for Consumers
<u>HSC 4694</u>	Worksite Health Promotion
<u>HSC 4950</u>	Current Topics in Health Education

Students must see an advisor before registering for these three courses:

<u>HSC 4813</u>	Practicum in Health Education	1-3
<u>HSC 4905</u>	Individual Study	1-4
HSC 5XXX: Any non-combined 5000-level course offered within the department		1-3

The Bachelor of Science in health education prepares students to work as a health education specialist in schools, government agencies, voluntary health organizations, philanthropic foundations, colleges and universities, private-sector industry and healthcare settings. Health education specialists improve the health and well-being of individuals, families, groups and community populations.

Grounded in social, behavioral, biological and health sciences, the curriculum develops understanding of the causes and determinants of mortality and morbidity and develops specific competencies required of entry-level health education specialists. Graduates will be eligible to take the Certified Health Education Specialist examination governed by The National Commission for Health Education Credentialing, Inc.

BEFORE GRADUATING STUDENTS MUST

- Satisfactory performance on at least one major assignment or examination for each core course required for the degree, as determined by performance criteria developed specifically for the assignment.
- Satisfactory completion of the 15 credit health education internship ([HSC 4876](#)) as indicated on the final performance appraisal.
- Complete requirements for the baccalaureate degree, as determined by faculty.

STUDENTS IN THE MAJOR WILL LEARN TO

Student Learning Outcomes (SLOs)

Content

1. Identify and apply theories-based strategies for assessing individual and community needs for health education/promotion.
2. Identify and utilize appropriate theory-based models for planning effective health education/promotion programs.
3. Identify and apply a variety of theories, models and strategies for implementing health education/promotion programs.
4. Identify and apply methods and procedures appropriate for evaluating the effectiveness of health education/promotion programs.
5. Coordinate the provisions of health education/promotion services.
6. Describe and employ methods to obtain and disseminate health education/promotion information.
7. Identify and apply the major concepts and principles related to nutrition, substance abuse, emotional health, human sexuality and environmental health.

Critical Thinking

8. Examine situations, conditions and events to solve problems independently and to evaluate health education/promotion outcomes.

9. Select health education/promotion programs and services based on best-evidence.

Communication

10. Communicate health needs, concerns and resources to identified clients and consumers.

11. Communicate health concepts and health information using a variety of channels to individuals, families and groups from diverse backgrounds in various settings.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
<u>HSC 3032</u>							I	I	I	I	I
HSC 3133						R	R	I, R			R
HSC 3134		R				R	R, A	I, R			R
HSC 3143		R				R	R, A	I, R			R
<u>HSC 3201</u>					I	I	I, A	I	I, R	I, R	I, R
HSC 3232C		R									R
<u>HSC 3301</u>		I					R, A				I
<u>HSC 3537</u>								R			
HSC 3574	R	R					A	R			R
<u>HSC 4174</u>	R						R	R			R
<u>HSC 4233</u>	R							R	R		R
<u>HSC 4302</u>	R	R, A		R	R		R, A	R	R		R, A
<u>HSC 4579</u>							R	R			R
<u>HSC 4593</u>		R, A	R, A			R	R			R, A	R, A

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11
<u>HSC 4623</u>	1	2	3	4	5	6	R	8	9	10	R
<u>HSC 4624</u>		I, R									R
<u>HSC 4663</u>		R				R		R	R		R
<u>HSC 4694</u>	R	A						R	R		R
<u>HSC 4713</u>	I, A	I, A		I, A	R			R, A	R, A	R	R
<u>HSC 4800</u>						R			R	R	R
<u>HSC 4876</u>	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A	R	A	R, A	R, A

ASSESSMENT TYPES

- Assignments
- Projects
- Internship evaluations
- Exit survey
- Certified Health Education Specialist (CHES) exam
- Florida Department of Health HIV/AIDS 501 Client-Centered Counseling and Testing Certificate