



**FLORIDA
ATLANTIC
UNIVERSITY**

New Combined Degree Program Request

UUPC Approval 2-28-22

UGPC Approval _____

UFS Approval _____

Banner Posted _____

Catalog _____

New Combined Degree Program Request

BA,BS in Biological & Physical Sciences/2nd BS in CECE/MS in Civil Engineering

Proposed Program: _____ CIP: _____ Effective Date (Term/Year): Spring / 2022 (e.g. Fall/2020)

Proposed Combined Program Information	Undergraduate	Graduate
Degree Level (e.g. B.A., B.S., M.A., M.S., etc.)	BA or BS, 2nd BS	MS
Program Name (e.g. Physics, Engineering, etc.)	Biological and Physical Sciences, CECE	Civil Engineering
College	Wilkes Honors College/CoE&CS	CoE&CS
Department	NA/CECE	CECE
Program Description (provide a brief description of the program, including thesis or non-thesis option)	This is a combined program with BA or BS in Biological and Physical Sciences in the Honors College, with a 2nd Bachelors degree in CECE to a BS/MS in Civil Engineering. Students complete the BA or BS first, obtain the 2nd Bachelors in CECE and then up to 9 credits of graduate coursework can be double counted. for 2nd BS and MS	

GPA Requirements: Departments must establish a minimum undergraduate GPA for students to be admitted to a combined program. *Note: Please attach explanation.*

Cumulative GPA of the last 60 credits must be 3.25 or above

List courses to be shared: Up to twelve (12) credit hours of graduate courses (5000 level or above course work) may be shared between the graduate and undergraduate degree for a combined program. *Note: Please attach explanation:*

- Academic justification for shared credits and catalog language
- List the undergraduate course that will be replaced by graduate courses.

Faculty Submitting Request	Name	Signature	Email	Date
	Daniel Meeroff		dmeeroff@fau.edu	9/20/21

Approved by

Department Chair: Jan Gong William O'Brien

College Dean: John (B) McCard

College Curriculum Chair: Dan Meeroff et al

UUPC Chair: Ethlyn Williams

Undergraduate Studies Dean: Daniel Meeroff
(Note: Forward approved form to UGPC@fau.edu)

UGPC Chair: _____

UGC Chair: _____

Graduate College Dean: _____

UFS President: _____

Provost: _____

Date

1/28/2022

11/31/22

11/31/22

2-28-22

2-28-22

Email this form and supporting documents to mjenning@fau.edu seven (7) business days before the UUPC meeting.

Academic Justification

The Wilkes Honors College (WHC) and the College of Engineering and Computer Science (CoE&CS) propose a new combined program, where students will complete the BA or BS degree in Biological and Physical Sciences in the WHC and then obtain a 2nd BS in one of the CEGE undergraduate programs (Civil Engineering, Environmental Engineering, or Geomatics Engineering) and then continue with an MS degree in Civil Engineering. The program requires at least 120 credits in the bachelor's degree, 30 credits in the 2nd BS, and at least 30 credits in the MS degree. The students will take the prerequisite courses while pursuing the bachelor's degree, ensuring a smooth transition into the MS in Civil Engineering program. The 2nd BS in engineering is required for students to pursue licensure. The pre-requisites for will be obtained while pursuing the bachelor's degree. Students in any concentration in the WHC can apply to this program, but they will have to take prerequisite courses, see Table 1. This combined program is open to talented students who have a cumulative FAU GPA of 3.25 or better in the last 60 credits prior to applying. Students can apply to the MS program at the end of their junior year (e.g. after completing at least 90 credits). Bachelor students who take graduate courses (5000 – level or higher) in the Department of Civil, Environmental & Geomatics Engineering (CEGE) may count up to 9 credits of approved graduate coursework (5000 level or higher) toward both their 2nd bachelor's and master's degrees as long as the combined program totals a minimum of 150 credits. These graduate courses will replace the upper-level elective courses in the 2nd bachelor's program.

Table 1.

Course Taken in WHC	Substitute for BSCV	Substitute for BSEV	Substitute for BSGE
STA2023	Statistics Elective	Statistics Elective	Statistics Elective
MAC2313	Physical & Natural Sciences Elective	CHM2046/L	Physical & Natural Sciences Elective
PHY2049/L	Physical & Natural Sciences Elective	Biological Science Elective	Physical & Natural Sciences Elective
	EGN3311	EGN3311	GEO2200C
MAP2302	MAP3305 or MAP 2302	MAP3305 or MAP 2302	GIS Elective
	EGN3321	Earth Science Elective	SUR3103/L
	EGN3331	EGN3331	CCE4031
	CGN3501C	EGN3343	SUR3141/L
	CWR3201C	CWR3201C	SUR3643
Upper level electives	See Table 2	See Table 3	Business elective (3) Additional electives (15)

Table 2 Upper Level Electives for pursuing 2nd BS in Civil Engineering

Course Name	Course No.	Credits
Geomatics	SUR 3103	2
Geomatics Lab	SUR3103L	1
Construction Project Management	CCE 4031	3
Soil Mechanics	CEG 3011C	3
Environmental Engineering and Science	ENV3001C	3
Analysis of Structures	CES 3102C	3
Introduction to Transportation Engineering	TTE3004C	3
TOTAL		18

Table 3 Upper Level Electives for pursuing 2nd BS in Environmental Engineering

Course Name	Course No.	Credits
Soil Mechanics	CEG 3011C	3
Environmental Engineering and Science	ENV3001C	3
Hydrologic Engineering	CWR4202	3
Additional Electives		9
TOTAL		18

Remaining Coursework for 2nd Bachelors

BSCV	Course No.	Credits	BSEV	Course No.	Credits	BSCV	Course No.	Credits
Structural Design Core		3	Intro to Pollution Prevention and Sustainability	ENV4072	3	Geodesy and Geodetic Positioning	SUR4530	3
Geotechnical Design Core		3	Air Pollution & Control Systems with Lab	ENV4112C	4	Eng & Construction Surveying	SUR3205/L	2+1
Transportation Design Core		3	Solid/Haz Waste & Site Remediation	ENV4341	3	Cadastral Principles and Legal Aspects	SUR4403	3
Water Resources Core		3	Env Fate & Transport	ENV4053	3	Reality Capture Core		6
Subdivision Design	SUR4463	2	Subdivision Design	SUR4463	2	Subdivision Design/Land Subdivision Lab	SUR4463/SUR3463L	2+1
RI: CEGE Design 1	CGN4803C	3	RI: CEGE Design 1	CGN4803C	3	RI: CEGE Design 1	CGN4803C	3
RI: CEGE Design 1	CGN4804C	3	RI: CEGE Design 1	CGN4804C	3			
Internship		1						
Water and Wastewater Treatment	ENV5510	3	Water and Wastewater Treatment	ENV5510	3			
5000 level graduate electives		6	5000 level graduate electives		6	5000 level graduate electives		9
TOTAL		30			30			30

BS/MS Degree

BS/MS		
Concentration Core		6
5000 Graduate Electives from BS		9
Electives		9
Master Thesis or Additional Electives		6
Total		30

CATALOG SPECIFICATIONS

B.A or B.S. in Biological and Physical Sciences, 2nd BS in Civil, Environmental or Geomatics Engineering to M.S. in Civil Engineering Degree Program

The Wilkes Honors College (WHC) and the College of Engineering and Computer Science (CoE&CS) offer a combined Bachelor of Arts or Bachelor of Science in Biological and Physical Sciences with 2nd Bachelors in CEGE to Master of Science in Civil Engineering degree program. The Bachelor of Arts or Bachelor of Science degree will be completed and received from the WHC. The 2nd Bachelor's degree will be completed from CoE&CS. Students will do the Master of Science in Civil Engineering in the Department of Civil, Environmental & Geomatics Engineering (CEGE) at FAU and will receive the master's degree from the CoE&CS. Students may count up to 9 credits of approved graduate coursework (5000 level or higher) toward both their 2nd bachelor's and master's degrees. These graduate courses will replace the upper-level elective courses in the bachelor's program. The combined program totals a minimum of 150 credits:

1. The student must take a minimum 120 credits for the bachelor's degree; and
2. The student must take a minimum of 30 credits in 5000 level or higher courses for the master's program.

Students must complete the prerequisite coursework for the master's degree while pursuing the bachelor's degree. This combined program provides an attractive way for students to continue their graduate work. Students complete the undergraduate program first. The combined program can be completed in approximately five years.

Admission Requirements

The GRE requirement is waived for this combined program. To be eligible for the combined program, the bachelor's students in the WHC should:

1. Have a cumulative FAU GPA of 3.25 or better in their last 60 credits. Note that the cumulative FAU GPA of at least 3.25 must be maintained until the completion of the bachelor's degree in the WHC.
2. Formally apply to the combined program, completing the admissions process at least one semester prior to the beginning of the M.S. portion of their program.

Students must meet all the degree requirements of the graduate program they have chosen, including prerequisite courses.

Degree Requirements To be eligible for this combined program, students must fulfill the following requirements:

1. Completion of the requirements for the B.A or B.S. in Biological and Physical Sciences in the WHC, and other requirements stipulated by the University and College
2. Completion of all requirements for the 2nd B.S. in Civil, Environmental or Geomatics Engineering program in the CEGE department as a second bachelor's degree
2. Completion of all requirements for the M.S. in Civil Engineering program in the CEGE department, on either the thesis or non-thesis (courses only) option



Honors Programs Coordinator
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MEMORANDUM:

TO: Dr. Ethlyn Williams
Chair, University Undergraduate Programs Committee (UUPC)

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

A handwritten signature in blue ink, appearing to read 'Mary Ann Gosser', is written over the printed name and title.

DATE: 18 February 2022

RE: New combined BA or BS Biological and Physical Sciences into a second Bachelors in CEGE to a BS/MS in Civil Engineering (Wilkes Honors College)

This new combined degree for WHC students with a BA or BS in Biological and Physical Sciences to continue into a second Bachelors' degree in CEGE to a BS/MS in Civil Engineering in the College of Computer Science and Engineering was submitted to the Wilkes Honors College Undergraduate Programs Committee.

As per the policies the University Honors Council established with regards to minor changes, the UHC does not have to vote to approve them, as long as they inform the Chair of the UHC—which their representatives did. The proposal was presented to the University Honors Council on 18 February 2022, and the UHC supports their proposal.

Please consider this new combined degree and give it approval for inclusion in the catalog. Thank you.

Provost's Office approval for combined Honors College/Engineering program

Hi Maria:

See Dan's response below. If the credits are not being triple dipped, it is okay. Could this statement be added to the proposal to make it clear? (Statements added.)

Thanks,
Debra

Debra Szabo

Director of Assessment, Accreditation, and Articulations
Florida Atlantic University
Phone: 561-297-4344
Email: dszabo@fau.edu
<http://www.fau.edu/provost>

FLORIDA ATLANTIC UNIVERSITY
OFFICE OF THE PROVOST

From: Dan Meeroff <dmeeroff@fau.edu>
Sent: Monday, February 21, 2022 11:24 AM
To: Debra Szabo <dszabo@fau.edu>
Subject: Re: Combined program with Honors College and Civil Engineering

Maria is correct. The 2nd bach credits are the ones in the BS/MS program. No triple dipping.

--

Daniel E. Meeroff, Ph.D.
Interim Dean of Undergraduate Studies
Florida Atlantic University
777 Glades Road SU 216
Boca Raton, FL 33431-0991

From: Debra Szabo <dszabo@fau.edu>
Sent: Monday, February 21, 2022 11:19 AM
To: Dan Meeroff <dmeeroff@fau.edu>
Subject: FW: Combined program with Honors College and Civil Engineering

Hi Dan:

I'm trying to discern if this proposed combined program will result in triple dipping of credits. I'm not familiar with the regulations for the 2nd bach and if those credits would be used to satisfy the 2nd bach and the masters. Any guidance would be greatly appreciated.

Best,
Debra

Debra Szabo

Director of Assessment, Accreditation, and Articulations

Florida Atlantic University

Phone: 561-297-4344

Email: dszabo@fau.edu

<http://www.fau.edu/provost>



From: Maria Jennings <mjenning@fau.edu>

Sent: Monday, February 21, 2022 11:17 AM

To: Debra Szabo <dszabo@fau.edu>

Subject: RE: Combined program with Honors College and Civil Engineering

Hi Deb,

The catalog lists degree requirements for 2nd bachs at this link below.

<https://www.fau.edu/academic/registrar/PREcatalog/degreerequirements.php#secbacc>

When I first looked it over, it seems the 9 credits that can be doubled counted would be counted only for the 2nd bach and the MS, and not for the bachelor's program in the Honors College, but it is not 100 percent spelled out this way. Dan Meeroff can clarify if you want to reach out to him.

Best,
Maria

From: Debra Szabo <dszabo@fau.edu>

Sent: Monday, February 21, 2022 10:42 AM

To: Maria Jennings <mjenning@fau.edu>

Subject: RE: Combined program with Honors College and Civil Engineering

Hi Maria:

I don't remember seeing this one. I'm not familiar with the regulations for 2nd bachs. I'm concerned about triple dipping here. Is there a rule about 2nd bachs that I could review?

Thanks,
Debra

Debra Szabo

Director of Assessment, Accreditation, and Articulations

Florida Atlantic University

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FLORIDA ATLANTIC UNIVERSITY
OFFICE OF THE PROVOST

From: Maria Jennings <mjenning@fau.edu>
Sent: Monday, February 21, 2022 9:47 AM
To: Debra Szabo <dszabo@fau.edu>
Subject: Combined program with Honors College and Civil Engineering

Hi Deb,

I hope your week is starting off well. I received this combined program approval on Friday from the University Honors Council asking that I post it on the Feb. 28 UUPC agenda. I don't have a memo about it from you, so I'm wondering if Honors College or Engineering sent this one to you for review? If not, please take a look at this one when you have a moment and let me know if it is OK to proceed with it.

I will post your message with the program documents on the UUPC site if you approve.

Thanks so much,
Maria