



New Combined Degree Program Request

UUPC Approval 12-7-20
 UGPC Approval _____
 UFS Approval _____
 Banner Posted _____
 Catalog _____

New Combined Degree Program Request

BS in Nursing/MS in Bioengineering
 Proposed Program: _____ CIP: _____ Effective Date (Term/Year): Fall / 2021 (e.g. Fall/2020)

Proposed Combined Program Information	Undergraduate	Graduate
Degree Level (e.g. B.A., B.S., M.A., M.S., etc.)	B.S.	M.S.
Program Name (e.g. Physics, Engineering, etc.)	Nursing	Bioengineering
College	Christine E. Lynn College of Nursing	Engineering and Computer Science
Department		Computer and Electrical engineering and Computer Science
Program Description (provide a brief description of the program, including thesis or non-thesis option)	This is a combined program with B.S. in Nursing to MS in Bioengineering. Students complete the prerequisite courses while pursuing the bachelor's degree. Up to 9 graduate credits can be double-counted in the bachelor and MS .	

Curriculum Requirements

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 at least 3.25 at the end of the junior year.

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
	Dr. Hanqi Zhuang		zhuang@fau.edu	10/21/2020

Approved by Hanqi Zhuang
 Department Chair: _____
Digitally signed by Hanqi Zhuang
Date: 2020.10.21 13:20:19 -0400

College Dean:
Digitally signed by M. Carder
DN: cn=M. Carder, ou=Florida Atlantic University, ou=Administration, email=mcarder@fau.edu, c=US
Date: 2020.10.21 14:42:00 -0400

College Curriculum Chair: Francisco Presuel-Moreno
Digitally signed by Francisco Presuel-Moreno
DN: cn=Francisco Presuel-Moreno, ou=Florida Atlantic University, ou=Administration, email=fpresuel@fau.edu, c=US
Date: 2020.10.21 15:09:00 -0400

UUPC Chair:

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

UGPC Chair: _____

UGC Chair: _____

Graduate College Dean: _____

UFS President: _____

Provost: _____

Date

11-23-20

11/30/2020

11-23-20

12-7-20

12-7-20

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

Academic Justification

The Christine E. Lynn College of Nursing and the College of Engineering and Computer Science (COECS) propose a new combined program, where students will complete the BS in Nursing (B.S.N.) degree in College of Nursing and then continue with an MS degree in Bioengineering in the COECS. The program requires at least 120 credits in the bachelor's degree 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 Bioengineering program.

The combined program preserves and enhances the quality of both degrees. Students in the College of Nursing applying to this program will have to take prerequisite courses from Table 1 which are offered by the department of Computer and Electrical Engineering and Computer Science (CEECS). This combined program is open to students who have a cumulative FAU GPA of 3.25 or better. 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 CEECS department may count up to 9 credits of approved graduate coursework (5000 level or higher) toward both their bachelor's and master's degrees as long as the combined program totals a minimum of 150 credits.

Table 1. Prerequisite courses to be completed during the bachelor's degree

Prerequisite Courses
MAC 2233 Methods of Calculus
PCB 3063 Genetics
COP 2035 Introduction to Programming in Python OR COP 2220 Introduction to Programming in C

CATALOG SPECIFICATIONS

B.S. in Nursing to M.S. in Bioengineering Degree Program

The Christine E. Lynn College of Nursing and the College of Engineering and Computer Science (COECS) offer a combined Bachelor of Science in Nursing to Master of Science in Bioengineering degree program. The Bachelor of Science in Nursing degree will be completed and received from the Christine E. Lynn College of Nursing. Students will do the Master of Science in Bioengineering in the Department of Computer and Electrical Engineering and Computer Science at FAU and will receive the master's degree from the COECS.

Students may count up to 9 credits of approved graduate coursework (5000 level or higher) toward both their bachelor's and master's degrees as long as the combined program totals a minimum of 150 credits and:

1. The student has met the minimum 120 credits for the bachelor's degree; and
2. The student has taken 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 at the College of Nursing. 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 College of Nursing should:

1. Have a cumulative FAU GPA of 3.25 or better at the end of their junior year. Note that the cumulative FAU GPA of at least 3.25 must be maintained until the completion of the bachelor's degree in the College of Nursing.
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 in the combined program must maintain continuous enrollment to remain in good standing. Students must also meet all the degree requirements of the graduate program they have chosen, including prerequisite courses.

Degree Requirements

To be eligible for the combined B.S. in Nursing to M.S. in Bioengineering Degree Program, students must fulfill the following requirements:

1. Completion of the requirements for the B.S. in Nursing in the Christine E. Lynn College of Nursing, and other requirements stipulated by the University and College
2. Completion of all requirements for the M.S. in Bioengineering program in the CEECS department, on either the thesis or non-thesis option.

**Combined BS in Nursing to MS in Bioengineering
Sample Plan of Study for the bachelor part of the program**

***Sample Freshmen Direct Admission Plan of Study
Nursing Courses for this track are taught onsite Boca campus**

Fall I		Spring I		Summer I	
Course	Credits	Course	Credits	Course	Credits
ENC 1101	3	ENC 1102	3		
Anatomy & Physiology I/L	4	Anatomy & Physiology II/L	4	Microbiology/L	4
MAC 2233 Methods of Calculus	3	Psychology	3	Sociology	3
NUR 3115 Foundations of Caring in Nursing Situations	3	Statistics	3		
SLS 1503 & SLS 1412 First Year Experience	2	NUR 4824 Professional Development I	1		
Total	15	Total	14	Total	7
Fall II		Spring II		Summer II	
DEP 3053 Growth/Dev	3	IFP	3	IFP	3
Chemistry/L	4	NUR 3145 Pharmacotherapeutics	3	IFP	3
NUR 4125 General Pathophysiology	3	NUR 3119C Foundations of Caring in Nursing Situations	2L		
NUR 3065 Health Assessment in Nursing Situations	2	NUR 4165 Nursing Research	3		
NUR 3065L Health Assessment in Nursing Situations Lab	1	NUR 3183 Nutrition	3		
Total	13	Total	14	Total	6

Fall III		Spring III		Summer III	
NUR 3262 Chronic Care in Nursing Situations for Adults and Aging Populations	3	NUR 3465 The Developing Family: Nursing Situations	4		
NUR 3262L Chronic Care in Nursing Situations for Adults and Aging Populations in Practice	2	NUR 3465L The Developing Family: Nursing Situations in Practice	2		
NUR 4638 Population Health: Nursing Situations	3	Elective: PCB 3063 Genetics	3		
NUR 4833/NUR 4860 Professional Development II, III	2	IFP	3		
Elective: COP 2035 Introduction to Programming in Python (OR COP 2220 Introduction to Programming in C)	3				
Total	13	Total	12		
Fall IV		Spring IV			
NUR 4716 Acute Care in Nursing Situations with Adults and Aging Populations	4	**NUR 4764 Complex Care in Nursing Situations with Adults and Aging Populations	3		
NUR 4716L Acute Care in Nursing Situations with Adults and Aging Populations in Practice	2	**NUR 4764L Complex Care in Nursing Situations with Adults and Aging Populations in Practice	1		
NUR 4525 Psychiatric and Mental Health: Nursing Situations Across the Lifespan	3	**NUR 4861 Professional Development IV 1	1		
NUR 4525L Psychiatric and Mental Health: Nursing Situations Across the Lifespan in Practice	2	***NUR 4829L Nursing Practice Immersion	4		
NUR 4947 Scholarship for Evidence-Based Nursing Practice	3	NUR 3171 Creating Healing Environments	3		
Total	14	Total	12	Total degree	120

Note: *The official Flight Plan is reviewed with the student by the advisor, and also found at <http://www.fau.edu/uas/curriculum.php>. Pre-requisite and co-requisite course information is officially found in the FAU Catalog <http://www.fau.edu/academic/registrar/FAUcatalog/>.

These courses will be blocked the first half of the semester; *these courses are blocked the second half of the semester.