FAU

FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Graduate Programs

Department EECS

College College of Nursing & College of Engineering/CS

UGPC Approval _____
UFS Approval _____
Banner _____
Catalog _____

Program Name
Bachelor of Science in Nursing to Master of Science with Major in Biomedical Engineering

☐ **New Program***
☑ **Change Program***

Effective Date *(TERM & YEAR)*
Spring 2023

Please explain the requested change(s) and offer rationale below or on an attachment.

This catalog change request removes PCB 3063 Genetics as a requirement for the combined BSN to MS Biomedical Engineering program. The request also updates the name of the department to Electrical Engineering and Computer Science (EECS).

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone
Dr. Hanqi Zhuang, zhuang@fau.edu, 561.297.3413

Consult and list departments that may be affected by the change(s) and attach documentation
College of Nursing

Approved by	***Date***
Department Chair	9/14/022
College Curriculum Chair	9/19/22
College Dean	9/19/22
UGPC Chair	
UGC Chair	
Graduate College Dean	
UFS President	
Provost	

Email this form and attachments to UGPC@fau.edu 10 days before the UGPC meeting.

Nursing to Biomedical Engineering

Bachelor of Science in Nursing (B.S.N.) to Master of Science (M.S.) Combined Program

(Minimum of 150 credits required)

The Christine E. Lynn College of Nursing and the College of Engineering and Computer Science (COECS) offer a combined Bachelor of Science in Nursing (B.S.N.) and Master of Science (M.S.) with Major in Biomedical Engineering degree program. The B.S.N. degree program is completed and received from the Christine E. Lynn College of Nursing. Students then complete the M.S. in Biomedical Engineering in the Department of ~~Computer and~~ Electrical Engineering and Computer Science (~~C~~EECS) and receive the M.S. degree from the COECS.

Students may count up to 9 credits of approved graduate coursework (5000-level or higher) toward both their B.S.N. and M.S. degrees as long as the combined program totals a minimum of 150 credits. Other requirements follow.

1. The student has met the minimum of 120 credits for the bachelor's degree;

2. The student has taken a minimum of 30 credits in 5000-level or higher courses for the master's degree.

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 coursework; the undergraduate program is completed 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 program, baccalaureate 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 master's portion of their program.

Students in the combined program must maintain continuous enrollment to remain in good standing. Students must also meet all degree requirements of the graduate program they have chosen, including prerequisite courses.

Degree Requirements

To be eligible for the combined B.S.N. in Nursing to M.S. in Biomedical Engineering program, students must fulfill the following requirements.

1. Completion of the requirements for the B.S.N. in Nursing in the College of Nursing and other requirements stipulated by the University and College.

2. Completion of all requirements for the M.S. in Biomedical Engineering in the ~~C~~EECS department with either the thesis or non-thesis option.

3. The following courses are taken during the B.S.N. in Nursing program.

Introduction to Programming in Python	COP 2034	3 **or**
Introduction to Programming in C	COP 2220	3
Methods of Calculus	MAC 2233	3
~~Genetics~~	~~PCB 3063~~	~~3~~

Plan of Study for the Nursing to Biomedical Engineering Combined Program

Fall 1

Anatomy and Physiology 1	BSC 2085	3
Anatomy and Physiology 1 Lab	BSC 2085L	1
College Writing 1	ENC 1101	3
Methods of Calculus	MAC 2233	3
Foundations of Caring in Nursing Situations	NUR 3115	3
Learning Strategies and Human Development	SLS 1503	2
Total		**15**
Spring 1		
Anatomy and Physiology 2	BSC 2086	3
Anatomy and Physiology 2 Lab	BSC 2086L	1
College Writing 2	ENC 1102	3
Professional Development in Nursing 1: Ethical and Legal Perspectives of Caring	NUR 4824	1
General Psychology	PSY 1012	3
Introductory Statistics	STA 2023	3
Total		**14**
Summer 1		
IFP course chosen with advisor		3
Microbiology for Health Services	MCB 2004	3
Microbiology for Health Services Lab	MCB 2004L	1
Sociological Perspectives	SYG 1000	3
Total		**10**
Fall 2		
General Chemistry for Health Sciences	CHM 2032	3
General Chemistry for Health Sciences Lab	CHM 2032L	1
Psychology of Human Development	DEP 3053	3
Health Assessment in Nursing Situations	NUR 3065	2

Health Assessment in Nursing Situations Lab	NUR 3065L	1
General Pathophysiology	NUR 4125	3
Total		**13**
Spring 2		
IFP course chosen with advisor		3
Foundations of Nursing Practice	NUR 3119C	2
Pharmacotherapeutics	NUR 3145	3
Food, Nutrition and Health	NUR 3183	3
Nursing Research	NUR 4165	3
Total		**14**
Summer 2		
IFP course chosen with advisor		3
Total		**3**
Fall 3		
Chronic Care in Nursing Situations for Adults and Aging Populations	NUR 3262	3
Chronic Care in Nursing Situations for Adults and Aging Populations in Practice	NUR 3262L	2
Population Health: Nursing Situations	NUR 4638	3
Professional Development in Nursing 2: Designer of Caring Environments	NUR 4833	1
Professional Development in Nursing 3: Leader/Coordinator of Caring Environments	NUR 4860	1
~~Genetics~~ IFP or elective	~~PCB 3063~~	~~3~~ 3
Total		**13**
Spring 3		
IFP course chosen with advisor		3
Introduction to Programming in Python	COP 2034	3 **or**
Introduction to Programming in C	COP 2220	3
The Developing Family: Nursing Situations	NUR 3465	4
The Developing Family: Nursing Situations in Practice	NUR 3465L	2
Total		**12**

Apply to M.S. with Major in Biomedical Engineering		
Fall 4		
Psychiatric and Mental Health: Nursing Situations Across the Lifespan	NUR 4525	3
Psychiatric and Mental Health: Nursing Situations Across the Lifespan in Practice	NUR 4525L	2
Acute Care in Nursing Situations with Adults and Aging Populations	NUR 4716	4
Acute Care in Nursing Situations with Adults and Aging Populations in Practice	NUR 4716L	2
RI: Scholarship for Evidence-Based Nursing Practice (research-intensive course)	NUR 4937	3
Total		**14**
Spring 4		
Creating Healing Environments	NUR 3171	3
Complex Care in Nursing Situations with Adults and Aging Populations	NUR 4764	3
Complex Care in Nursing Situations with Adults and Aging Populations in Practice	NUR 4764L	1
Nursing Practice Immersion	NUR 4829L	4
Professional Development in Nursing 4: Member of a Caring Profession	NUR 4861	1
Total		**12**

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From: Joy Longo <JLONGO5@health.fau.edu>
Sent: Monday, October 24, 2022 12:49 PM
To: Mihaela Cardei <mcardei@fau.edu>
Cc: Lisa Wiese <lwiese@health.fau.edu>
Subject: Program Changes

Hello Mihaela,
The program changes to reduce the prerequisites down to 2 were approved by our Faculty Assembly. Our chair for the Committee on Program, Dr. Wiese who is copied on this email, is obtaining signatures to submit the paperwork to UUPC by the deadline this Thursday.
Regards,
Joy

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