

### Academic Justification

The Wilkes Honors College (WHC) and the College of Engineering and Computer Science (COECS) propose a new combined program, where students will complete the BA or BS degree in Liberal Arts and Sciences in the WHC and then continue with an MS degree in Electrical Engineering 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 Electrical Engineering program.

The combined program preserves and enhances the quality of both degrees. Students in any concentration in the WHC can apply to this program, but they will have to take prerequisite courses which will improve their background in electrical engineering, see Table 1. This combined program is open to talented 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 the department of Computer and Electrical Engineering and Computer Science (CEECS) 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**

<b>MS in Electrical Engineering</b>		
<b>Electrical Engineering prereqs</b>	<b>College taken in</b>	<b>Prereqs</b>
COP 2220	CEECS online	
CDA 3201C	CEECS online	COP 2220
CDA 3331C	CEECS	COP 2220, CDA 3201C
MAC 2312	HC	MAC 2311
PHY 2049/L	HC	PHY 2048/L
EGN 1002	CEECS online	
EEL 3111	CEECS	PHY 2049, MAC 2312, MAP 3305, EGN 1002
MAP 3305	CoS	MAC 2312
EEL 3470	CEECS, recorded	EEL 3111, MAC 2313
EEE 3300	CEECS	
EEE 4361	CEECS	EEE 3300
EEL 3112	CEECS	EEL 3111
EEL 4656	CEECS recordings	EEL 3112
EEL 4512	CEECS recordings	EEL 4656
EEL 4652	CEECS recordings	EEL 3112
EEL 3118L	CEECS	EEE 3300

## **CATALOG SPECIFICATIONS**

### **B.A or B.S. in Liberal Arts and Sciences to M.S. in Electrical Engineering Degree Program**

The Wilkes Honors College (WHC) and the College of Engineering and Computer Science (COECS) offer a combined Bachelor of Arts or Bachelor of Science in Liberal Arts and Sciences to Master of Science in Electrical Engineering degree program. The Bachelor of Arts or Bachelor of Science in Liberal Arts and Sciences will be completed in the WHC at FAU and the students will receive the bachelor's degree from the WHC. Students will do the Master of Science in Electrical Engineering 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 WHC. 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 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 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 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.A or B.S. in Liberal Arts and Sciences to M.S. in Electrical Engineering Degree Program, students must fulfill the following requirements:

1. Completion of the requirements for the B.A or B.S. in Liberal Arts and Sciences in the WHC, and other requirements stipulated by the University and College
2. Completion of all requirements for the M.S. in Electrical Engineering program in the CEECS department, on either the thesis or non-thesis option.