



**FLORIDA  
ATLANTIC  
UNIVERSITY**

## New Combined Degree Program Request

UUPC Approval 10/8/18  
 UGPC Approval \_\_\_\_\_  
 UFS Approval \_\_\_\_\_  
 Banner Posted \_\_\_\_\_  
 Catalog \_\_\_\_\_

### New Combined Degree Program Request

Proposed Program: BA, BS in Liberal Arts and Sciences / MS in Electrical Engineering CIP: \_\_\_\_\_ Effective Date (Term/Year): Spring/2019

Proposed Combined Program Information	Undergraduate	Graduate
Degree Level (e.g. B.A., B.S., M.A., M.S., etc.)	B.A or B.S.	MS
Program Name (e.g. Physics, Engineering, etc.)	Liberal Arts and Sciences	Electrical Engineering
College	Wilkes Honors College	Engineering and Computer Science
Department	NA	Computer and Electrical Engineering and Computer Science
Program Description (provide a brief description of the program, including thesis or non-thesis option)	The BA, BS in Liberal Arts and Sciences/MS in Electrical Engineering combined program will enable outstanding students in the Honors College to continue their study with an MS in Electrical Engineering in the College of Engineering and Comp. Science. Students complete the prerequisite coursework for the Master's degree while pursuing their bachelor's degree at the Wilkes Honors College. Students complete a minimum of 120 credits for the undergraduate degree and a minimum of 30 credits in the master's degree. Prospective students must formally apply to the program and meet all admission requirements.	

### 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 FAU GPA of at least 3.25

**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. Valentine Aalo		aalo@fau.edu	9/19/2018

### Approved by

	Date
Department Chair: <u>Margaret Enckel</u>	9/20/2018 9/28/2018
College Dean: <u>McGander</u>	9/24/2018 9/28/18
College Curriculum Chair: <u>[Signature]</u>	9/24/18/9/28/18
UUPC Chair: <u>J. E. Key</u>	10/9/18
Undergraduate Studies Dean: <u>Ernie S. Bratt</u>	10/9/18
UGPC Chair: <u>[Signature]</u>	11.14.18
UGC Chair: <u>[Signature]</u>	11/14/18
Graduate College Dean: <u>Khald Soliman</u>	11/15/18
UFS President: _____	
Provost: _____	

Email this form and supporting documents to [mianning@fau.edu](mailto:mianning@fau.edu) seven (7) business days before the UUPC meeting.

For questions, contact the Graduate College at [ugpc@fau.edu](mailto:ugpc@fau.edu)

GRADUATE COLLEGE Created: 09/04/2018

OCT 11 2018

Received

### 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**

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

GRADUATE COLLEGE

OCT 24 2018

Received

## 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.

OCT 24 2018

**4 YEAR FLIGHT PLAN:** Received  
**BA or BS in Liberal Arts and Sciences with a Concentration in Physics**  
**doing the Combined BS/MS in Electrical Engineering**  
**For students entering Fall 2019 and later**

FAU is committed to your success as a student. One way we define student success is efficient and effective progression through your degree program.

This Flight Plan is a tool to assist you in planning the courses you should complete and the milestones you should reach during your undergraduate studies so you may graduate on time. It is our intention that you complete this planning tool in *collaboration with your academic advisor* to ensure good understanding of:

- Which graduation requirements you have satisfied
- Which Honors College Core and elective courses will best help you explore your interests and future goals or develop new interests
- How to balance coursework with your other responsibilities and activities (e.g., employment, mentored research, study abroad, student organizations)
- How to get the most from your academic experience at FAU

Your academic advisor will help you customize and maintain your final Flight Plan during the next four years so that you stay on track for success at FAU's Honors College. In order to graduate on time, you will need to:

- Complete an average of 30 credit hours per year, less any college credit you enter FAU with
- Earn 120 credit hours, at least 45 in the upper division (3000 or 4000 level)
- Earn at least 9 credit hours in summer coursework (or equivalent)

The Honors College provides individual advising from faculty and so this Flight Plan is meant only to be a general guide. The Faculty advisor is assigned initially during Orientation but students are free to change their faculty advisor by completing a change of advisor form, [available online](#). Students should not feel bound by this generic plan if they and their faculty advisor have developed a different plan that better suits their particular needs. Your advisor will help you identify what additional milestones apply to you, as well as help prepare you for a graduate program if that is your goal. In addition, students should use MyFAU to run a DARS audit of their coursework to confirm what requirements they still need to meet. If you have any questions at all about your FAU Flight Plan, feel free to contact any of the following individuals for assistance. They are here to help!

**Your Academic Advising Professionals**

<b><i>Faculty Advisor</i></b>	
<b>Office Location:</b>	
<b>Email Address/Phone:</b>	
<b><i>Academic Support Services</i></b>	<b>Mr. David Flanigan</b>
<b>Office Location:</b>	<b>HC 132</b>
<b>Email Address/Phone:</b>	<b>flanigan@fau.edu/799-8622</b>
<b><i>Associate Dean</i></b>	<b>Dr. Mark Tunick</b>
<b>Office Location:</b>	<b>HC 133</b>
<b>Email Address/Phone:</b>	<b>tunick@fau.edu/799-8670</b>
<b>Additional Info:</b>	<b><a href="http://www.fau.edu/honors/academics.php">http://www.fau.edu/honors/academics.php</a></b>

*This unofficial guide is to be used in conjunction with regular academic advising appointments. Not all University and State degree requirements are listed. For a full degree audit, see the Director of Academic Support Services in HC 132.*

**Flight Plan: BA or BS in Liberal Arts and Sciences with a Concentration in Physics and a Combined Degree M.S. in Electrical Engineering**

**IMPORTANT NOTES**

1. Honors College students are required to maintain an FAU cumulative GPA of at least **3.0** to remain eligible for their Honors College scholarships. You must maintain a minimum **2.0** GPA each semester to be in good academic standing.
2. To receive your Honors College scholarship you must be full-time (**minimum 12 credits/semester**) in the Honors College. You should have your advisor's prior approval when taking courses outside the Honors College.
3. Students with an out-of-state tuition waiver must maintain a **3.3** FAU Cumulative GPA to retain the waiver.

Sample flight plan

Enter with credit in:	credits
MAC 2311	4
ENC 1101, ENC 1102	6
POS 1041	3
<b>Year One:</b>	
IDS 1022 Forum	1
BSC 1010/L	4
PHY 2048/L	5
MAC 2312	4
PHY 2049/L	5
PHI 2010	3
AMH 2010	3
PHI 2642	3
SPN 1120	4
COP 2220 (summer)	3
<b>Year Two:</b>	
ANT 2410	3
CDA 3201C (online)	4
2 Physics electives	6
CDA 3331C	3
MAC 2313	4
SPN 1121	4
Hum Distribution Elective	3
Social Science Distribution	3
EGN 1002 (summer)	3
<b>Year Three:</b>	
2 Team-taught courses	4
Physics elective2	6
MAP 3305 (counts as math elective)	3
EEL 3111	3
EEL 3470 (count as Physics elective with approval)	4
EEE 3300	4

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EEE 4361	3
Internship (3) (summer)	3
<b>Year 4</b>	
Physics Honors Thesis	6
Team-taught course	1
EEL 3112	2
EEL 4656	3
EEL 4512	3
EEL 4652	3
EEL 3118L	2
	131
	(includes 13 credits from AP)

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## More Information

Honors College Academic Information  
<http://www.fau.edu/honors/academics.php>

Student Policies, Services, and Resources (Handbook):  
<http://www.fau.edu/handbook/>

Registration, Transcripts, Forms, Student Records:  
<http://www.fau.edu/registrar/>

Academic Support (Center for Teaching and Learning, Writing Center, Undergraduate Research):  
<http://www.fau.edu/ctl/>

Student Financial Aid, Other Financial Services:  
<http://www.fau.edu/finaid/>

Students with Disabilities:  
<http://osd.fau.edu/>

Student Life (Housing, Events & Organizations, Wellness, Counseling, Leadership, Military Affairs, etc.):  
<http://www.fau.edu/student/SADepts.php>

Career Development Center:  
<https://www.fau.edu/cdc/students/undergraduate/student.php>

## Tips for Success

- Meet with your faculty advisor at least once a semester.
- Monitor your progress in your courses; “check-in” with your instructors regularly!
- Check your degree audit every semester.
- Stay aware of important deadlines.
- Take advantage of resources FAU and the Honors College has made available to you to help you succeed on your flight, such as tutoring, office hour visits, and the writing center.

Last updated 10/23/18

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