

# **New Combined Degree Program Request**

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

			Catalog	
New Combined Degree Progra Proposed Program: BA, BS in Liberal Ar	m Request ts and Sciences / MS in Co	mputer Engineering C	IP:Effective Date (Term/Ye	ear): Spring/2019
Proposed Combined Program Information	Undergraduat	te	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 Science	es Compute	er Engineering	
College	Wilkes Honors College	Engineer	ring and Computer Science	
Department	NA	Compute	er and Electrical Engineering and Con	nputer Science
Program Description (provide a brief description of the program, including thesis or non-thesis option)	enable outstanding stud Engineering in the Colle coursework for the Mas College. Students comple	lents in the Honors Col ge of Engineering and ter's degree while pur- ete a minimum of 120 ter's degree. Prospecti	Computer Engineering combined pr llege to continue their study with an I Comp. Science. Students complete th suing their bachelor's degree at the W credits for the undergraduate degree we students must formally apply to th	MS in Computer e prerequisite Vilkes Honors e and a minimum
	Curriculu	ım Requirements		
GPA Requirements: Departments minimum undergraduate GPA for sadmitted to a combined program. No explanation.  Cumulative FAU GPA of at least 3.2.	students to be ote: Please attach	courses (5000 level the graduate and u Note: Please attach exp.	nared: Up to twelve (12) credit hours or above course work) may be shar ndergraduate degree for a combine lanation: stification for shared credits and catalog la ergraduate course that will be replaced by s	ed between ed program.
Faculty Submitting Request	Name	Signature	/ Email	Date
	Dr. Valentine Aalo	Ulla	aalo@fau.edu	9/19/2018
Approved by  Department Chair:  College Dean:  College Curriculum Chair:  UUPC Chair:  Undergraduate Studies Dean: (Note: Forward approved form to the BC Contractual)  UGPC Chair:  UGC Chair:  UGC Chair:  Graduate College Dean:  UFS President:  Provost:	Hy Sold	Mars 33	Date  9/20/20/8  9/24/2018  9-24-2018  10-8-18  10-9/9  11/14/14  11/14/14	1/25/2014 1/25/18
mail this form and supporting documen or questions, contact the Graduate O			before the UUPC meeting.  GRADUATE COLLEGE:	ated: 09/04/2019
				2010

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 Computer 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 Computer 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 computer 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

Comp Engineering	
prereqs	College taken at
COP 2220	CEECS online
CDA 3201C	CEECS online
CDA 4102	CEECS online
CDA 3331C	CEECS
COP 3014	CEES online
MAD 2104	HC or CoS
COP 3530	CEECS online
PHY 2049/L	HC
EGN 1002	CEES online
EEL 3111	CEES
MAP 3305	CoS
EEE 3300	CEECS online
STA 4821	CEECS online
MAC 2313	НС

**GRADUATE** COLLEGE

OCT 2 4 2018

#### B.A or B.S. in Liberal Arts and Sciences to M.S. in Computer 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 Computer 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 Computer 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 Computer Engineering Degree Program, students must fulfill the following requirements:

- 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 Computer Engineering program in the CEECS department, on either the thesis or non-thesis option.



# New Combined Degree Program Request

	12/9/10
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 Computer Science _ CIP:	UNIVERISTY					Banner   Catalog	Posted	
Degree Level (e.g. B.A., B.S., M.A., M.S., etc.)  Program Name (e.g. Physics, Engineering, etc.)  College  Department  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 Computer Science combined program will enable outstanding students in the Honors College to continue their study with an MS in Computer Science to 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 admitted to a combined program. Note: Please attach explanation.  Curriculum Requirements  GPA Requirements: Departments must establish a minimum undergraduate GPA for students to be admitted to a combined program. Note: Please attach explanation.  Curriculum Requirements  GPA Requirements: Departments must establish a minimum undergraduate GPA for students to be admitted to a combined program. Note: Please attach explanation:  Curriculum Requirements  GPA Requirements: Departments must establish a minimum undergraduate degree for a combined program. Note: Please attach explanation:  List due undergraduate degree for a combined program. Note: Please attach explanation:  Approved by  Department chair:  College Dean:  Undergraduate Studies Dean:  Worker Ferward approved forman in program and minimum of 120 credits in the master's degree of a combined program. Note: Please attach explanation:  Approved by  Date  11 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	New Combined Deg Proposed Program: _BA, I	<b>ree Progra</b> i BS in Liberal Ar	m Request ts and Sciences / MS in Co	omputer Scienc	ce_ CIP	':	Effective Date (Term	ı/Year): _Spring/2019
Liberal Arts and Sciences   Computer Science			Undergraduat	e			Graduate	
College  Department 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 Computer Science combined program will enable description of the program, including thesis or non-thesis option)  The BA, BS in Liberal Arts and Sciences/MS in Computer Science combined program will enable description of the program, including thesis or non-thesis option)  The BA, BS in Liberal Arts and Sciences/MS in Computer Science combined program will enable description of the program, including the program including the description of the program, including the description of the program will enable the the program and more than the Honors College Des and the Honors College Gegree while pursuing their backlors to the Wilkes Honors College Dean:  Curriculum Requirements:  Curriculum Requirements  List courses to be shared: Up to twelve (12) credit hours of graduate on the graduate and undergraduate degree of a combined program. Note: Please attach explanation.  Note: Please attach explanation in the graduate course that will be replaced by graduate course that will be replaced by graduate course.  Approved b		etc.)	B.A or B.S.	N	//S			
Department Program Description (provide a brief description of the program, including in the College of Engineering and Sciences/MS in Computer Science combined program will enable outstanding students in the Honors College to continue their study with an MS in Computer Science in the College of Engineering and Comp. Science. Students complete the prerequisite coursework of the Master's degree entile 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  Curriculum Requirements  Curriculum Requirements  Elist 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.  Cumulative FAU GPA of at least 3.25  Name  Dr. Valentine Aalo  Approved by  Department Chair:  College Curriculum Chair:  UUPC Chair:  Jundergraduate Studies Dean:  (Note: Forward approved formata proved formata pro		, etc.)	Liberal Arts and Science	es C	Comput	er Scienc	е	
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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  Cumulative FAU GPA of at least 3.25  Name Faculty Submitting Request  Name Dr. Valentine Aalo  Department Chair:  College Dean:  College Curriculum Chair:  UIUPC Chair:  UIUPC Chair:  UIUPC Chair:  UIGC Chair:  UGC Chair:  Graduate College Dean:  Must establish a minimum undergraduate GPA for students to be attach to be abareed: 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:  Acadgmic justification for shared credits and catalog language  List the undergraduate course that will be replaced by graduate courses.  Signature:  Email Date  9/19/2018  Pate  9/29/20/8 9/29/19/2018  10/9/19/2018  10/9/19/2018  10/9/19/2018  11/19/18  UIGPC Chair:  UIGC Chair:  UIGC Chair:  Graduate College Dean:  Mall Saludate Studies Dean:  Mall Saludate College Dean:  Mall Saludate Courses to be shared: Up to twelve (12) credit hours of graduate courses.  List tourses to be shared: Up to twelve (12) credit hours of graduate courses.  Acadgmic justification for shared credits and catalog language  List the undergraduate course that will be replaced by graduate courses.  Paculty Submitting Request  Paculty Submitting Request  10/19/2018  10/9	description of the program	m, including	outstanding students in in the College of Engines the Master's degree whi complete a minimum of the master's degree. Pro	the Honors Co ering and Comp le pursuing the 120 credits for spective stude	llege to p. Scien eir bach r the un	continue ce. Stude elor's de dergradi	e their study with an MS ints complete the prereq gree at the Wilkes Hono late degree and a minim	in Computer Science juisite coursework for irs College. Students num of 30 credits in
minimum undergraduate GPA for students to be admitted to a combined program. Note: Please attach explanation.  Cumulative FAU GPA of at least 3.25  Cumulative FAU GPA of at least 3.25  Faculty Submitting Request  Name  Dr. Valentine Aalo  Approved by  Department Chair:  College Dean:  UUPC Chair:  Undergraduate Studies Dean:  (Note: Forward approved forms to 1600 College Dean:  UGPC Chair:  UGPC Chair:  Graduate College Dean:  More: Please attach explanation:  Academic justification for shared credits and catalog language  List the undergraduate course that will be replaced by graduate courses.  Academic justification for shared credits and catalog language  List the undergraduate course that will be replaced by graduate courses.  Signature:  Email  Date  9   20   20   8   9   34   30    9   24   20   8   9   34    10   9   18  10   9   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18  11   17   18			Curriculu	ım Requiren	ients			
Faculty Submitting Request  Dr. Valentine Aalo  Date  Department Chair:  College Dean:  College Curriculum Chair:  UUPC Chair:  Undergraduate Studies Dean:  (Note: Forward approved form to UUPC Chair:  UGC Chair:  UGC Chair:  Graduate College Dean:  Malala Golden  Date  9/19/2018  9/19/2018  9/20/20/8 9/30/00  9/24/20/8 9/26/00  9/24/20/8 9/26/00  9/24/20/8 9/26/00  9/19/2018  1/24/20/8 9/26/00  1/24/20/8 9/2	minimum undergraduat admitted to a combined explanation.	e GPA for si	tudents to be te: Please attach	courses (500 the graduate Note: Please at • Acad	00 level e and u tach exp demic ju	or above indergram indergram in a stification in a stific	e course work) may be duate degree for a com for shared credits and catal	shared between abined program.  log language
Approved by  Department Chair:  College Dean:  College Curriculum Chair:  UUPC Chair:  Undergraduate Studies Dean:  (Note: Forward approved form to UGPC Chair:  UGC Chair:  UGC Chair:  Graduate College Dean:  Malutar Graduate College Dean:	Faculty Submitting Reque	est		Sign	ature			
Provost:	Department Chair:  College Dean:  College Curriculum Chair:  UUPC Chair:  Undergraduate Studies Dean (Note: Forward approved form to  UGPC Chair:  UGC Chair:  Graduate College Dean:  UFS President:		Sold	m.a.J	33	Date	9/24/20/8 9/24/20/8 9/24/20 40/8/18 10/9/18 11.14.18 11.14.18	18/9/28/18

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

For questions, contact the Graduate College at ugpc@fau.edu

Created: 09/04/2018

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 Computer Science 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 Computer Science program.

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

Comp Science prereqs	College taken in
COP 2220	CEECS online
MAD 2104	HC or CoS
COP 3014	CEECS online
CDA 3201C	CEECS online
CDA 3331C	CEECS
or CDA 4102	CEECS
COP 3530	CEECS online
COP 4610	CEECS online
COT 4400	CEECS online
STA 4821	CEECS online
MAC 2312	НС

**GRADUATE COLLEGE** 

OCT 2 4 2018

#### B.A or B.S. in Liberal Arts and Sciences to M.S. in Computer Science 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 Computer Science 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 Computer Science in the Department of Computer and Electrical Engineering and Computer Science at FAU and will receive the master's degree from the COECS.

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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 Computer Science Degree Program, students must fulfill the following requirements:

- 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 Computer Science program in the CEECS department, on either the thesis or non-thesis option.



# **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)	outstanding students in the Hono Engineering in the College of Eng coursework for the Master's degr College. Students complete a min	iences/MS in Electrical Engineering combined program will enable rs College to continue their study with an MS in Electrical ineering and Comp. Science. Students complete the prerequisite ee while pursuing their bachelor's degree at the Wilkes Honors imum of 120 credits for the undergraduate degree and a minimum ee. Prospective students must formally apply to the program and

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.

FIk-C-I	Name	Signature	Email	Date
Faculty Submitting Request	Dr. Valentine Aalo	1/1/20	aalo@fau.edu	9/19/2018
Approved by	1-	Dat	ë	
Department Chair:	Endel/1		9/20/00/8	9/28/2018
College Dean:	di M	et Junh	9/24/2018	9/28/18
College Curriculum Chair:	a Jan	1.a.V37	9/24/18/91	28 18
UUPC Chair: J E Wy		3>	10/8/15	
Undergraduate Studies Dean:  (Note: Forward approved form to UGPC@fau.edu)		<u></u>	10 9 18	-
UGPC Chair:			11:14.18	
UGC Chair: Tall. File			11/14/18	
Graduate College Dean:	L Solden		11/15/18	
UFS President:				
Provost:	į.			

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

For questions, contact the Graduate College at ugpc@fau.edu

GRADUATE COLLEGE Created: 09/04/2018

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 takin in
COP 2220	CEECS online
CDA 3201C	CEECS online
CDA 3331C	CEECS
MAC 2312	НС
MAC 2313	HC
PHY 2049/L	НС
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

**G**RADUATE COLLEGE

OCT 2 4 2018

## 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:

- 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 2 4 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

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

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 <u>Physics and a Combined Degree M.S. in Electrical Engineering</u>

#### **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

Sample flight plan	
Enter with credit in:	credits
MAC 2311	4
ENC 1101, ENC 1102	6
POS 1041	3
Year One:	
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
Year Two:	
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
Year Three:	
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

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.

EEE 4361	3
Internship (3) (summer)	3
Year 4	
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)

#### 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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# 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 Information Technology and Management, with Advanced Information Technology Concentration\_ CIP: Effective Date (Term/Year): \_Spring/2019 **Proposed Combined Program** Undergraduate Graduate Information Degree Level B.A or B.S. (e.g. B.A., B.S., M.A., M.S., etc.) Program Name Liberal Arts and Sciences Information Technology and Management, Advanced (e.g. Physics, Engineering, etc.) Information Technology Concentration Wilkes Honors College Engineering and Computer Science College Computer and Electrical Engineering and Computer Science Department NA The combined program BA, BS in Liberal Arts and Sciences/ MS in Information Technology and Program Description (provide a brief Management, with Advanced Information Technology Concentration, will enable outstanding description of the program, including students in the Honors College to continue their study with an master's program in the College of thesis or non-thesis option) Engineering and Computer 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** List courses to be shared: Up to twelve (12) credit hours of graduate GPA Requirements: Departments must establish a courses (5000 level or above course work) may be shared between minimum undergraduate GPA for students to be admitted to a combined program. Note: Please attach the graduate and undergraduate degree for a combined program. explanation. Note: Please attach explanation: Cumulative FAU GPA of at least 3.25 Academic justification for shared credits and catalog language List the undergraduate course that will be replaced by graduate courses. **Email** Name Signature **Faculty Submitting Request** Dr. Valentine Aalo aalo@fau.edu 9/19/2018 Date Approved by Department Chair: College Dean: College Curriculum Chair: **UUPC Chair:** Undergraduate Studies Dean: (Note: Forward approved form to UGPC@fa UGPC Chair: UGC Chair: Graduate College Dean: UFS President: Provost:

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

For questions, contact the Graduate College at ugpc@fau.edu

Created: 09/04/2018

GRADUATE COLLEGE

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 Information Technology and Management with Advanced Information Technology Concentration 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 program in Information Technology and Management with Advanced Information Technology Concentration.

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 for the master's program, 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

Advanced Info Tech Prereqs	College taken at
COP 2220	CEECS online
MAD 2104	HC or CoS
COP 3014	CEECS online
CDA 3201C	CEECS online
CDA 3331C	CEECS
or CDA 4102	CEECS online
COP 3530	CEECS online
COP 3540	CEECS online
COP 4610	CEECS online
COP 3813	CEECS online
MAC 2312	НС
STA 2023	НС

**GRADUATE COLLEGE** 

OCT 2 4 2018

# B.A or B.S. in Liberal Arts and Sciences to M.S. in Information Technology and Management with Advanced Information Technology Concentration 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 Information Technology and Management with Advanced Information Technology Concentration 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 Information Technology and Management with Advanced Information Technology Concentration 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 Information Technology and Management with Advanced Information Technology Concentration Degree Program, students must fulfill the following requirements:

- 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
- Completion of all requirements for the M.S. in Information Technology and Management with Advanced Information Technology Concentration program in the CEECS department, on either the thesis or non-thesis option.

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# New Combined Degree Program Request

UUPC Approval	10/8/18
UGPC Approval	1-1-2
UFS Approval _	
Banner Posted	, ,
Catalog	

New Combined Degree Program Request
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Proposed Program: \_BA, BS in Liberal Arts and Sciences / MS in Information Technology and Management, with Computer Science Data Analytics Concentration \_ 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	Information Technology and Management, Computer Science Data Analytics Concentration
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 combined program BA, BS in Liberal Arts and Sciences/ MS in Information Technology and Management, with Computer Science Data Analytics Concentration, will enable outstanding students in the Honors College to continue their study with an master's program in the College of Engineering and Computer 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.

	Name	Signature	Email	Date
Faculty Submitting Request	Dr. Valentine Aalo	UND	aalo@fau.edu	9/19/2018
Approved by Department Chair:	Dr. Valentine Aalo  Suddi  Addi  Ly  Suddi  Suddi Suddi  Suddi	Date Jul		१ १/२४/२०१६
UFS President:			7.7.	7
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Provost:				+

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

For questions, contact the Graduate College at ugpc@fau.edu

Created: 09/04/2018

GRADUATE COLLEGE

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 Information Technology and Management with Computer Science Data Analytics Concentration 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 program in Information Technology and Management with Computer Science Data Analytics Concentration.

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 for the master's program, 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

Comp. Science Data Analytics prereqs	College taken at
COP 2220	CEECS (online)
MAD 2104	CEECS (online)
COP 3014	CEECS (online)
COP 3530	CEECS (online)
CDA 3201C	CEECS
CDA 4102	CEECS (online)
or CDA 3331C	CEECS
or CDA 4204	CEECS
COP 3540	CEECS (online)
MAC 2312	НС
STA 2023	НС

GRADUATE COLLEGE OCT 2 4 2018

# B.A or B.S. in Liberal Arts and Sciences to M.S. in Information Technology and Management with Computer Science Data Analytics Concentration 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 Information Technology and Management with Computer Science Data Analytics Concentration 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 Information Technology and Management with Computer Science Data Analytics Concentration 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 Information Technology and Management with Computer Science Data Analytics Concentration Degree Program, students must fulfill the following requirements:

- 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
- Completion of all requirements for the M.S. in Information Technology and Management with Computer Science Data Analytics Concentration program in the CEECS department, on either the thesis or non-thesis option.

OCT 2 4 2018

## 4 YEAR FLIGHT PLAN:

Received

BA or BS in Liberal Arts and Sciences with a Concentration in Math doing the

Combined BS/MS in ITM Computer Science Data Analytics
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

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

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 <u>Math and a Combined Degree M.S. in Data Analytics</u>

#### **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.

Abbreviated Version of 4-year plan	
Enter with credit in:	credits
MAC 2311	4
ENC 1101, ENC 1102	6
POS 1041	3
Year One:	
IDS 1022 Forum	1
BSC 1010/L	4
CHM 2045/L	4
MAC 2312	4
STA 2023	3
PHI 2010	3
AMH 2010	3
PHI 2642	3
COP 2220	3
SPN 1120	4
Year Two:	
ANT 2410	3
CPO 3003	3
MAA 4200	3
MAD 2104	3
COP 3014	3
2 Intermediate Math Group A courses	
(6)	6
SPN 1121	4
COP 3530 (summer)	3
Hum Distribution Elective	3
Year Three:	
Social Science Distribution	3
2 Team-taught courses	2
1 intermediate Math Group A	3
MAS 4301	3

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.

2 upper division Math Electives	6
CDA 3201C (summer)	4
CDA 4102	3
Internship (summer)	3
Year 4	
One additional Math elective	3
Math Honors Thesis	6
Team-taught course	3
COP 3540	3
One upper division Math Elective	3
	120

#### More Information

# Honors College Academic Information <a href="http://www.fau.edu/honors/academics.php">http://www.fau.edu/honors/academics.php</a>

## 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 10/9/18

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# New Combined Degree Program Request

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

new combined	Degree Progra	ım kequest					
Proposed Program:	BA, BS in Liberal A	rts and Science	s with Biology, B	Biological Chemist	ry, Chemistry,	Marine Biology, I	Physics, Neuroscienc
Concentrations / MC	in Dicongingoring	CID.	Effective Date	(Torm /Vone). Cr	ring/2010		

**Proposed Combined Program** Undergraduate Graduate Information Degree Level B.A or B.S. MS (e.g. B.A., B.S., M.A., M.S., etc.) Program Name Liberal Arts and Sciences Bioengineering (e.g. Physics, Engineering, etc.) Wilkes Honors College Engineering and Computer Science College Department NA Computer and Electrical Engineering and Computer Science Program Description (provide a brief The BA, BS in Liberal Arts and Sciences with Biology, Biological Chemistry, Chemistry, Marine description of the program, including Biology, Physics, Neuroscience Concentrations/MS in Bioengineering combined program will thesis or non-thesis option) enable outstanding students in the Honors College to continue their study with an MS in Bioengineering in the College of Engineering and Computer 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** List courses to be shared: Up to twelve (12) credit hours of graduate GPA Requirements: Departments must establish a minimum undergraduate GPA for students to be courses (5000 level or above course work) may be shared between the graduate and undergraduate degree for a combined program. admitted to a combined program. Note: Please attach explanation. Note: Please attach explanation: Academic jystification for shared credits and catalog language Cumulative FAU GPA of at least 3.25 List the undergraduate course that will be replaced by graduate courses. Name Signature **Email** Date Faculty Submitting Request Dr. Valentine Aalo aalo@fau.edu 9/19/2018 Approved by Department Chair: College Dean: College Curriculum Chair: **UUPC Chair:** Undergraduate Studies Dean: (Note: Forward approved form to UGPC Chair; UGC Chair: Graduate College Dean: **UFS President:** 

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

For questions, contact the Graduate College at ugpc@fau.edu

Provost:

GRADUATE COLLEGE

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 with Biology, Biological Chemistry, Chemistry, Marine Biology, Physics, Neuroscience Concentration in Liberal Arts and Sciences in the WHC 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. WHC students in any of the concentrations: Biology, Biological Chemistry, Chemistry, Marine Biology, Physics, and Neuroscience can apply to this program, but they will have to take prerequisite courses which will improve their background in bioengineering, 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

MS Bioengineering prereqs	College taken at
COP 2220	CEECS (online)
CHM 2210 H Organic Chem I	
CHM 2204 H Organic Chem I Lab	
CHM 2211 H Organic Chem II	
CHM 2205 H Organic Chem II Lab	НС
BCH 3033/L H Biochemistry with lab	НС
PCB 3063 H Genetics	НС
PHY 2048/L H Physics I with lab	НС
MAC 2312 H Calculus II	нс

**G**RADUATE COLLEGE

OCT 2 4 2018

B.A or B.S. in Liberal Arts and Sciences with Biology, Biological Chemistry, Chemistry, Marine Biology, Physics, Neuroscience Concentrations to M.S. in Bioengineering 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 with Biology, Biological Chemistry, Chemistry, Marine Biology, Physics, Neuroscience Concentrations to Master of Science in Bioengineering 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 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.

This program is open to WHC students in one the following concentrations: Biology, Biological Chemistry, Chemistry, Marine Biology, Physics, and Neuroscience. Students must complete the prerequisite coursework for the master's degree while pursuing the bachelor's degree at the WHC. In addition to the prerequisite coursework listed under the M.S. in Bioengineering program, the following deficiency courses must be taken:

- Students in the Chemistry concentration must take BCH 3033/L H Biochemistry I/Lab, BSC 1010 H Biological Principles, and BSC 1010L H Biological Principles Lab.
- Students in the Marine Biology, Physics, and Neuroscience concentrations must take Honors Organic Chemistry I and II with labs and BCH 3033/L H Biochemistry I/Lab.

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 Bioengineering Degree Program, students must fulfill the following requirements:

- Completion of the requirements for the B.A or B.S. in Liberal Arts and Sciences in the WHC Sciences with Biology, Biological Chemistry, Chemistry, Marine Biology, Physics, Neuroscience Concentration, and other requirements stipulated by the University and College
- Completion of all requirements for the M.S. in Bioengineering program in the CEECS department, on either the thesis or non-thesis option.