# FAU
FLORIDA ATLANTIC UNIVERISTY

New Combined Degree Program Request

UUPC Approval _2/24/20_

UGPC Approval _____

UFS Approval _____

Banner Posted _____

Catalog _____

New Combined Degree Program Request

BA,BS in Biological and Physical Sciences/MS in Artificial Intelligence

Proposed Program: _____ CIP: _____ Effective Date (Term/Year): _Fall_ / _2020_ (e.g. Fall/2020)

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.)	Biological and Physical Sciences	Artificial Intelligence
College	Wilkes Honors College	Engineering and Computer Science
Department	NA	Comp. and Elec. Eng. and Comp. Science
Program Description (provide a brief description of the program, including thesis or non-thesis option)	This is a combined program with B.A. or B.S. in Biological and Physical Sciences to MS in Artificial Intelligence. Students complete the prerequisite courses while pursuind 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	12/09/19

Approved by / Date

Approved by		Date	
Department Chair:		12/09/19	1/25/20
College Dean:	Mihaela Cardei (Digitally signed by Mihaela Cardei, DN: cn=Mihaela Cardei, o=Florida Atlantic University, ou, email=mcardei@fau.edu, c=US Date: 2019.12.10 14:13:31 -05'00')	12/10/19	1/25/20
College Curriculum Chair:	Ramesh Teegavarapu (Digitally signed by Ramesh Teegavarapu...)		1/25/20
UUPC Chair:			2/24/20
Undergraduate Studies Dean:			2/26/20
(Note: Forward approved form to UGPC@fau.edu)			
UGPC Chair:	Paul R. Peluso	03/27/2020	
UGC Chair:	Paul R. Peluso	03/27/2020	
Graduate College Dean:	Digitally signed by member: 8ED423C9-A9FA-4DA0-B0B9-C422E945C5E7 7852D92B-2334-43D3-B364-BB8C8A5BEE19 Date: 2020.03.30 16:39:44 -04'00'		
UFS President:			
Provost:			

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

GRADUATE COLLEGE

FEB 2 7 2020

Created: 09/04/2018

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 Biological and Physical Sciences in the WHC and then continue with an MS degree in Artificial Intelligence 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 Artificial Intelligence 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, 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 in Artificial Intelligence		
Comp Science prereqs	**College taken in**	**Prereqs**
COP 2220 or COP 2000	CEECS online or HC	
MAD 2104	HC or CoS	
COP 3014	CEECS online	COP 2220 or COP 2000
COP 3530	CEECS online	MAD 2104, COP 3014
COT 4400	CEECS online	COP 3530
STA 4821 or STA 2023	CEECS online HC	MAC 2312
MAC 2312	HC	MAC 2311

CATALOG SPECIFICATIONS

B.A or B.S. in Biological and Physical Sciences to M.S. in Artificial Intelligence 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 Biological and Physical Sciences to Master of Science in Artificial Intelligence degree program. The Bachelor of Arts or Bachelor of Science degree will be completed and received from the WHC. Students will do the Master of Science in Artificial Intelligence 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 Biological and Physical Sciences to M.S. in Artificial Intelligence Degree Program, students must fulfill the following requirements:

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

4 YEAR FLIGHT PLAN:
BA or BS in Biological and Physical Sciences with a Concentration in <u>Math</u>
<u>doing the Combined BS/MS in Artificial Intelligence</u>
For students entering Fall 2020 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. Terje Hoim
Office Location:	HC 133
Email Address/Phone:	thoim@fau.edu/799-8673
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 Biological and Physical Sciences with a Concentration in <u>Math</u> doing the Combined BS/MS in Artificial Intelligence

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

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

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Year 4	
One additional Math elective	3
Math Honors Thesis	6
Team-taught course	3
COT 4400 (online)	3
One upper division Math Elective	3
	120

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 02/20/20

Honors Programs Coordinator
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www.fau.edu

MEMORANDUM:

TO: Dr. Jerome Haky
        Chair, University Undergraduate Programs Committee (UUPC)

FROM: Dr. Mary Ann Gosser
        Chair, University Honors Council (UHC)
        University Honors Director

DATE: 7 February 2020

RE: New combined BA or BS Biological and Physical Sciences into an MS in Artificial Intelligence (Wilkes
        Honors College)

As per FAU's Honors Curriculum Manual, this new combined degree for WHC students with a BA or BS in Biological and Physical Sciences to continue into an MS in Artificial Intelligence in the College of Computer Science and Engineering was submitted to the Wilkes Honors College Undergraduate Programs Committee. The proposal was then discussed and approved by the University Honors Council on 7 February 2020.

We are now asking the UUPC to consider this new combined degree and give it approval for inclusion in the catalog. Thank you.

GRADUATE COLLEGE

MAR 0 4 2020