FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 3-1-21
UFS Approval _____
Banner Posted _____
Catalog _____

Department N/A

College Wilkes Honors College

Program Name
Concentration in Chemistry

☐ **New Program**

☑ **Change Program**

Effective Date
(TERM & YEAR)
Fall 2021

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

1) Remove CHM 4912, CHM 4914 and CHM 4970 from the list of required courses and replace these credits with IDS 4970 Honors Thesis (total of 6 credits).

2) Add CHM 4915 to the list of Chemistry Electives.

The change is necessary in order to unify the requirements for all concentrations. It does not change the total number of credits required for this concentration.

Faculty Contact/Email/Phone

Dr. Eugene Smith
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561.320.7928

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

N/A

Approved by	***Date***
Department Chair: William O'Brien	12/12/2020
College Curriculum Chair: Carmen Canete Quesada	Dec 11, 2020
College Dean: Terje Hill	Dec. 10, 2020
UUPC Chair: Jerry Haky	3-2-21
Undergraduate Studies Dean: Edward Pratt	3-1-21
UFS President:	
Provost:	

Email this form and attachments to mjenning@fau.edu one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

CONCENTRATION IN CHEMISTRY

The chemistry concentration is designed for those students who wish to go on to graduate school, medical school or who desire to work in industry. The interdisciplinary curriculum will benefit students who choose to pursue graduate studies in chemistry or other areas such as oceanography or environmental science.

Available Options: Concentration in Chemistry; Minor Concentration. (http://www.fau.edu/honors/academics/majors/chemistry)

See also the Chemistry prereq flowchart.

Advisory Board:

Dr. Eugene Smith (mailto:esmith@fau.edu?subject=Chemistry%20major)
Dr. Chitra Chandrasekhar (mailto:cchandr1@fau.edu?subject=Biology%20major)
Dr. Veljko Dragojlovic (mailto:vdragoj1@fau.edu?

Major Concentrations (/honors/academics/majors/)

Minor Concentrations (/honors/academics/minor-concentrations/)

Pathways (/honors/academics/pathways/)

Prestige Scholarships (/honors/academics/prestige-scholarships/)

Publications (/honors/undergraduate-research/publications/)

Research Day (/honors/undergraduate-research/research-symposium/)

Student Awards (/honors/current-students/student-awards/)

Study Abroad (/honors/current-students/study-abroad/)

Undergraduate Research (/honors/undergraduate-research/)

subject=Biology%20major)

CONCENTRATION IN CHEMISTRY

Course Number	Course Name	Credits
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
CHM 3400	Honors Introduction to Physical Chemistry	3
CHM 3609, 3609L	Honors Inorganic Chemistry with Lab	4
CHM 4135, 4135L	Honors Instrumental Methods of Analysis with Lab	4
MAC 2311	Honors Calculus I	4
MAC 2312	Honors Calculus II	4
PHY 2048, 2048L	Honors General Physics I with Lab	5
PHY 2049, 2049L	Honors General Physics II with Lab	5
	Chemistry Elective *(See list below; one elective must include a Lab)*	10-11
~~CHM 4912 or CHM 4914~~ Remove CHM 4915	~~Honors Research in Chemistry or Honors Research and Writing in Chemistry~~	~~3~~
~~CHM 4970~~ IDS 4970	~~Honors Thesis in Chemistry~~	~~3~~ 6
	Total Credits	61-2

Electives are shown below. Other FAU courses may be counted only with the prior approval of the Concentration Advisor. Students are reminded that they need 45 upper-level (3000 or 4000-level) credits to graduate.

Chemistry Electives

Course Number	Course Name	Credits
BCH 3033, 3033L	Honors Biochemistry with Lab	4
CHM 3084	Honors Environmental Chemistry	3
CHM 3121, 3121L	Honors Quantitative Analysis with Lab	4
CHM 3292	Honors Chemistry of Medicinal and Natural Products	3
CHM 4231	Honors Spectroscopy	3
CHM 4473	Honors Quantum Chemistry	3
CHM 4905	Honors Directed Independent Study in Chemistry	1-4
CHM 4933	Honors Special Topics in Chemistry	1-4

Add CHM 4915 1-3 credits

Restrictions: Students in the chemistry concentration will need to maintain a *minimum of a C in all required chemistry courses.* (Revised 3/28/08; prior version (http://www.fau.edu/honors/academics/majors/chemistry-old-08/)). The senior thesis will be based on 3 hours of senior research and 3 hours of thesis credit. The thesis committee must have at least one member of the chemistry advisory board.

Minor Concentration

To receive a minor concentration in Chemistry students must fulfill the following minimum standards:

a. 20 credit hours of work in chemistry from the course list below;
b. At least 9 of the credit hours must be upper level (3000 or above);

c. At least 50 percent of the credit hours beyond General Chemistry I and II must be completed at the Wilkes Honors College;
d. Students completing the minor concentration must have a minimum overall grade point average of 2.0 in the course work required.

Course Number	Course Name	Credits
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
CHM 3080	Honors Environmental Chemistry	3
CHM 3121, 3121L	Honors Quantitative Analysis with Lab	4
CHM 3400	Honors Introduction to Physical Chemistry	3
CHM 3609, 3609L	Honors Inorganic Chemistry with Lab	4
CHM 4135, 4135L	Honors Instrumental Methods of Analysis with Lab	4
	Total Credits	34

** Updated 08/02/2016*