

**EXECUTIVE COMMITTEE
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES
REPORT TO THE RIVERSIDE DIVISION
MAY 29, 2018**

To be adopted:

Proposed Changes to Chemistry Undergraduate Program
Change of Major Criteria

PRESENT:

General Requirements

1. Students must be in good academic standing with 2.0 cumulative GPA and 2.0 upper-division chemistry major GPA.
2. Grades for all chemistry core and required lower-division math and physics courses must be "C-" or better.
3. A grade of "C-" or better in each of the courses used to satisfy the 20-unit CNAS Natural Science and Mathematics breadth requirement.
4. AP credit is not accepted for lower-division chemistry courses.

Specific requirement:

If student has completed less than 45 units (first year students), then

- Completion of CHEM 001A, CHEM 01LA, MATH 009A

If student has completed between 45 and 90 units (second year students), then

- Completion of MATH 009A, MATH 009B, MATH 009C.
- Completion of CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC and PHYS 040A or PHYS 002A and PHYS 02LA (PHYS 002A & PHYS 02LA can be used for B.A. program only)

If student has completed between 90 and 135 units (third year students), then

PROPOSED:

General Requirements

1. No Change
2. No Change
3. No Change
4. No Change

Specific requirement:

No Change

- Completion of CHEM 001A or CHEM 01HA, CHEM 01LA or CHEM 01HLA, MATH 009A

No Change

- No Change
- Completion of CHEM 001A or CHEM 01HA, CHEM 001B or CHEM 01HB, CHEM 001C or CHEM 01HC, CHEM 01LA or CHEM 01HLA, CHEM 01LB or CHEM 01HLB, CHEM 01LC or CHEM 01HLC and PHYS 040A or PHYS 002A and PHYS 02LA (PHYS 002A & PHYS 02LA can be used for B.A. program only)

No Change

- Completion of all lower-division math requirements (MATH 009A, MATH 009B, MATH 009C, MATH 010A for B.A. program; and MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 010B, MATH 046 for B.S. program).
- Completion of the following chemistry courses (CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC, CHEM 005, CHEM 008A and CHEM 08LA ~~or CHEM 12A~~, CHEM 008B and CHEM 08LB ~~or CHEM 12B~~, CHEM 008C and CHEM 08LC ~~or CHEM 12C~~ (or CHEM 08HA and CHEM 08HLA ~~or CHEM 12HA~~, CHEM 08HB and CHEM 08HLB ~~or CHEM 12HB~~, CHEM 08HC and CHEM 08HLC ~~or CHEM 12HC~~).
- Completion of all lower-division physics requirements (PHYS 040A, PHYS 040B, PHYS 040C or PHYS 002A, PHYS 002B, PHYS 002C and PHYS 02LA, PHYS 02LB, PHYS 02LC) (Phys 002A, PHYS 002B, PHYS 002C and PHYS 02LA, PHYS 02LB, PHYS 02LC can be used for B.A. program only)
- Completion of all lower-division math requirements (MATH 009A, MATH 009B, MATH 009C, MATH 010A for B.A. program; and MATH 009A, MATH 009B, MATH 009C, MATH 010A, and two out of the following: MATH 010B, MATH 031, MATH 046 for B.S. program).
- Completion of the following chemistry courses (CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC, CHEM 005, CHEM 008A and CHEM 08LA, CHEM 008B and CHEM 08LB, CHEM 008C and CHEM 08LC (or CHEM 08HA and CHEM 08HLA, CHEM 08HB and CHEM 08HLB, CHEM 08HC and CHEM 08HLC).
- No Change

If student has completed more than 135 units (fourth year students), then

No Change

- Completion of all lower-division math requirements (MATH 009A, MATH 009B, MATH 009C, MATH 010A for B.A. program; and MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 010B, MATH 046 for B.S. program).
- Completion of all lower-division chemistry courses (CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC, CHEM 005, CHEM 008A and CHEM 08LA ~~or CHEM 12A~~, CHEM 008B and CHEM 08LB ~~or CHEM 12B~~, CHEM 008C and CHEM 08LC ~~or CHEM 12C~~ (or CHEM 08HA and CHEM 08HLA ~~or CHEM 12HA~~, CHEM 08HB and CHEM 08HLB ~~or CHEM 12HB~~, CHEM 08HC and CHEM 08HLC ~~or CHEM 12HC~~).
- Completion of all lower-division math requirements (MATH 009A, MATH 009B, MATH 009C, MATH 010A for B.A. program; and MATH 009A, MATH 009B, MATH 009C, MATH 010A, and two out of the following: MATH 010B, MATH 031, MATH 046 for B.S. program).
- Completion of all lower-division chemistry courses (CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC, CHEM 005, CHEM 008A and CHEM 08LA, CHEM 008B and CHEM 08LB, CHEM 008C and CHEM 08LC (or CHEM 08HA and CHEM 08HLA, CHEM 08HB and CHEM 08HLB, CHEM 08HC and CHEM 08HLC).

~~12C~~ (or CHEM 08HA and CHEM 08HLA or ~~CHEM 12HA~~, CHEM 08HB and CHEM 08HLB or ~~CHEM 12HB~~, CHEM 08HC and CHEM 08HLC or ~~CHEM 12HC~~).

08HLA, CHEM 08HB and CHEM 08HLB, CHEM 08HC and CHEM 08HLC).

- Completion of all lower-division physics requirements (PHYS 040A, PHYS 040B, PHYS 040C or PHYS 002A, PHYS 002B, PHYS 002C and PHYS 02LA, PHYS 02LB, PHYS 02LC) (PHYS 002A, PHYS 002B, PHYS 002C and PHYS 02LA, PHYS 02LB, PHYS 02LC can be used for B.A. program only)
- Completion of upper-division chemistry courses (~~CHEM 125~~ and CHEM 150A)
- No Change
- Completion of upper-division chemistry courses (CHEM 125W and CHEM 150A)

JUSTIFICATION:

- Removing CHEM 012 courses

Organic Chemistry series has been approved to update from CHEM 012 to CHEM 008 in Fall on 2017 in order help all CNAS major by reducing the upper division requirement between 36 to 60 units and give other majors an opportunity to strengthen their own degree program. CHEM 012 no longer exists.

- Changing CHEM 125 to CHEM 125W

The CHEM 125 course contained an objective of having the students paraphrase experiments and scientific techniques to better understand the importance and objective of the experiment being performed. By changing the course from CHEM 125 to CHEM 125W, this will allow students to be trained in writing scientific reports or journals while preparing lab reports for this class. Along with that, this will also accomplish the requirement of satisfying the UCR's third -quarter writing requirement.

- Moving MATH 010A from being an optional course

MATH 010A is a pre-requisite to CHEM 110A, a course requirement for the Bachelor of Science in the Chemistry Program. With that, MATH 010A is a requirement.

- Adding General Chemistry Honor Series and Honors Lab to Second Year Requirements.

Students who are placed into General Chemistry Honors and Honors Lab meet the same requirement as students taking General Chemistry and Lab.

APPROVALS:

Approved by the faculty of the Department of Chemistry:
Approved by the Executive Committee of the College of Natural and Agricultural Sciences:
Approved by the Committee on Educational Policy:

February 27, 2018

March 20, 2018

May 4, 2018