

**AGENDA**  
**Faculty Senate Meeting**  
**September 24, 2024 – 3:45 pm, Lowrimore Auditorium**

- I. Call to order**
- II. Approval of Minutes from the April 18, 2024 meeting**
- III. Report from the Executive Committee**
- IV. Report from the Academic Affairs Committee (*See the attachment for complete proposals. See the appendix for supporting materials*).**
  - 1. Proposal from the Department of Chemistry**
    - A. Modify Chemistry Major requirements
    - B. Modify Forensic Science Option in Chemistry requirements
    - C. Modify Pre-Pharmacy Option in Chemistry requirements
- V. Report from the Graduate Council (*See the attachment for complete proposals. See the appendix for supporting materials*).**

There were no proposals sent forth from the GC for this meeting.
- VI. Old Business**
- VII. New Business**
- VIII. Announcements**
- IX. Adjournment**

**Attachment to the Faculty Senate Agenda – September 24, 2024**

**IV. Report from the Academic Affairs Committee**

- 1. Proposal from the Department of Chemistry**
  - A. **MODIFY** on page 80 of the current catalog the course options under chemistry and other requirements for a traditional **Chemistry Major**

**FROM:**

**Major**

<b>General Education Requirements</b> .....	<b>48-50 hours</b>
Communications .....	9-10 hours
English 101 (or English 101E/L), 102.....	6 or 7
Speech Communications 101 .....	3
Social Sciences .....	9 hours
Political Science 101 or 103 .....	3
Social Science Electives (2).....	6
Humanities .....	12 hours
Literature .....	3
History .....	3
Art 101, Music 101, or Theater 101 .....	3
Humanities Elective .....	3
Mathematics .....	6-7 hours
Mathematics 111 or 111E/L, 132 or higher .....	6 or 7
Natural Sciences .....	12 hours
Biology .....	4
Chemistry 111/111L .....	4
Chemistry 112/112L .....	4
<b>Chemistry Requirements</b> .....	<b>28 hours</b>
Chemistry 201 .....	4
Chemistry 202 .....	4
Chemistry 203 .....	4
Chemistry 301 .....	4
<b>Chemistry 302</b> .....	4
<b>Chemistry 303</b> .....	4
Chemistry 402 .....	3
Chemistry 499 .....	1
<b>Other Requirements</b> .....	<b>17 hours</b>
Mathematics 201 .....	3
Mathematics 202 .....	3
<b>Mathematics 203, 301, 304 or 306</b> .....	3
Physics 201 .....	4
Physics 202 .....	4
<b>Minor/Collateral &amp; Free Electives</b> .....	<b>25-27 hours</b>
<b>Minimum Hours Required for Graduation</b> .....	<b>120 hours</b>

**TO:**

**Major**

<b>General Education Requirements</b> .....	<b>48-50 hours</b>
Communications .....	9-10 hours
English 101 (or English 101E/L), 102.....	6 or 7

Speech Communications 101 .....	3
Social Sciences .....	9 hours
Political Science 101 or 103 .....	3
Social Science Electives (2) .....	6
Humanities .....	12 hours
Literature .....	3
History .....	3
Art 101, Music 101, or Theater 101 .....	3
Humanities Elective .....	3
Mathematics .....	6-7 hours
Mathematics 111 or 111E/L, 132 or higher .....	6 or 7
Natural Sciences .....	12 hours
Biology .....	4
Chemistry 111/111L .....	4
Chemistry 112/112L .....	4
<b>Chemistry Requirements .....</b>	<b>28 hours</b>
Chemistry 201 .....	4
Chemistry 202 .....	4
Chemistry 203 .....	4
Chemistry 301 .....	4
Chemistry 302, 403, 404, 405, 407, 408, 497, 498* .....	4
Chemistry 303 or 313 .....	4
Chemistry 402 .....	3
Chemistry 499 .....	1
*A minimum of four hours must be selected from the courses listed.	
<b>Other Requirements .....</b>	<b>17 hours</b>
Mathematics 201 .....	3
Mathematics 202 .....	3
Mathematics 203, 301, 304, 306, 310, or 312 .....	3
Physics 201 .....	4
Physics 202 .....	4
<b>Minor/Collateral &amp; Free Electives .....</b>	<b>25-27 hours</b>
<b>Minimum Hours Required for Graduation .....</b>	<b>120 hours</b>

**Rationale:** These changes increase the flexibility of courses that can be taken to complete a traditional Chemistry major. As currently written, the courses allowed for a major are restrictive and would exclude the likelihood that students would take several other suitable upper-level chemistry courses, most of which offered for the ACS certified degree. This added flexibility should benefit both the department and the students. Due to the small number of chemistry majors, this will allow course substitutions particularly in the event that a course currently required can't be offered due to low enrollment or is only offered every other year. Appropriate options for upper-level Math courses have also been added as the additional courses would also provide more flexibility for the Chemistry degree math requirements.

The first modification gives the student the choice of taking Chem 302 (Physical Chemistry II, 4 hrs) or some combination of the following upper level courses to obtain the needed minimum of 4 credit hours: Chem 403 (Advanced Synthesis & Characterization, 2 hrs), Chem 404 (Biochemistry, 3 hrs), Chem 405 (Advanced Organic, 3 hrs), Chem 407 (Intro to Polymer Science, 3 hrs), Chem 408 (Biochemistry II, 3 hrs), Chem 497 (Special Studies, 1 hr), and Chem 498 (Chemistry Internship, 1hr).

The second modification gives the student the choice of taking Chem 303 (Instrumental Analysis) or Chem 313 (Environmental Chemistry). Both of these courses rely heavily on the use of instrumentation to identify and measure analytes. This will also help the department because it is unlikely that we will be able to offer both courses in the same year.

The third modification includes Math 310 (Mathematical Models & Applications) and Math 312 (Probability & Statistics for Science & Math) as additional options to complete the math requirements for the Chemistry degree.

These changes do not change any minimum hour requirements for the major.

**B. MODIFY on page 81 of the current catalog the course options under the **Forensic Science Option in Chemistry****

**FROM:**

**Forensic Science Option in Chemistry**

<b>General Education Requirements</b> .....	<b>48-49 hours</b>
Communications .....	9-10 hours
English 101 (or English 101E/L) .....	3 or 4
English 102 .....	3
Speech Communications 101 .....	3
Social Sciences .....	9 hours
Political Science 101 or 103 .....	3
Political Science 230 .....	3
Sociology 201 .....	3
Humanities .....	12 hours
Literature .....	3
History .....	3
Art 101, Music 101, or Theater 101 .....	3
Humanities Elective .....	3
Mathematics .....	6 hours
Mathematics 132 or 137 or higher .....	3
Mathematics 134 .....	3
Natural Sciences .....	12 hours
Biology 105 and 115 or 107 .....	4
Biology 106 or 108 .....	4
Chemistry 111 and 111L .....	4

<b>Forensic Science Curriculum</b> .....	<b>38 hours</b>
Chemistry 404 .....	3
Chemistry 497 (Research in Forensics) .....	1
Chemistry 204 (Essential Forensic Chemistry) .....	4
Sociology 341 (Criminology) .....	3
Sociology Course selected FROM 342, 343, 344, or 347 .....	3
Political Science Course selected FROM 206, 330, or 331 .....	3
Physics 201 and 202 .....	8
Mathematics 201 .....	3
Mathematics 202 .....	3
Mathematics 203 .....	3
Biology 205 .....	4
<b>Chemistry Requirements</b> .....	<b>.28 hours</b>
Chemistry 112 and 112L .....	4
Chemistry 201 .....	4
Chemistry 202 .....	4
Chemistry 203 .....	4
Chemistry 301 .....	4
Chemistry 303 .....	4
Chemistry 499 .....	1
Upper-level Chemistry: One course from 300 or 400-level .....	
Chemistry 302, 313, 402, 405, 407, or 408 .....	3 or 4
<b>Free Electives</b> .....	<b>6 hours</b>
<b>Total Hours Required for Graduation</b> .....	<b>120 - 122 hours</b>

**TO:**

**Forensic Science Option in Chemistry**

<b>General Education Requirements</b> .....	<b>48-49 hours</b>
Communications .....	9-10 hours
English 101 (or English 101E/L) .....	3 or 4
English 102 .....	3
Speech Communications 101 .....	3
Social Sciences .....	9 hours
Political Science 101 or 103 .....	3
Political Science 230 .....	3
Sociology 201 .....	3
Humanities .....	12 hours
Literature .....	3
History .....	3
Art 101, Music 101, or Theater 101 .....	3
Humanities Elective .....	3
Mathematics .....	6 hours
Mathematics 132 or 137 or higher .....	3

Mathematics 134 .....	3
Natural Sciences .....	12 hours
Biology 105 and 115 or 107 .....	4
Biology 106 or 108 .....	4
Chemistry 111 and 111L .....	4
<b>Forensic Science Curriculum .....</b>	<b>38 hours</b>
Chemistry 404 .....	3
Chemistry 497 (Research in Forensics) .....	1
Chemistry 204 (Essential Forensic Chemistry) .....	4
Sociology 210 (Introduction to Crime Studies) .....	3
Sociology Course selected FROM 341, 342, 343, 344, or 347 .....	3
Political Science Course selected FROM 206, 346, or 347 .....	3
Physics 201 and 202 .....	8
Mathematics 201 .....	3
Mathematics 202 .....	3
Mathematics 203, 301, 304, 306, 310, or 312 .....	3
Biology 205 .....	4
<b>Chemistry Requirements .....</b>	<b>28 hours</b>
Chemistry 112 and 112L .....	4
Chemistry 201 .....	4
Chemistry 202 .....	4
Chemistry 203 .....	4
Chemistry 301 .....	4
Chemistry 303 or 313 .....	4
Chemistry 499 .....	1
Upper-level Chemistry: One course from 300 or 400-level	
Chemistry 302, 402, 403, 405, 407, 408, 497, 498* .....	3 or 4
*A minimum of 3 hours must be selected from these courses.	
<b>Free Electives .....</b>	<b>6 hours</b>
<b>Total Hours Required for Graduation .....</b>	<b>120 - 122 hours</b>

**Rationale:** These changes increase the flexibility of courses that can be taken to complete the Forensic Science Option in Chemistry. As currently written, the chemistry courses allowed for this option are restrictive and would exclude the likelihood that students would take several other suitable upper-level chemistry courses most of which offered for the ACS certified degree. This added flexibility should benefit both the department and the students. Due to the small number of chemistry majors, this will allow course substitutions particularly in the event that a course currently required can't be offered due to low enrollment or is only offered every other year. Appropriate options for upper-level Math courses have also been added as the additional courses would also provide more flexibility for the Forensic Option math requirements. Changes in the Sociology and Political Science courses reflect changes made in those departments.

The first modification changes Sociology 341(Criminology) to Sociology 210 (Introduction to Crime Studies). The Department of Sociology is updating the course content of Sociology 341 as a result of the creation of Sociology 210 for the new Criminal Justice degree. Based on those changes, the lower-level course (Sociology 210) will provide the relevant content for those in the Forensic Science Option in Chemistry. These changes are being made in consultation with the Sociology Department.

The second modification moves Sociology 341 to be included as an option for the second required Sociology course.

The third modification changes the course numbers for Political Science 330 or 331 to Political Science 346 (Criminal Justice and Public Policy) or 347 (Politics of Crime and Justice). Political Science 330 and 331 are no longer listed in the course catalog and were replaced with 346 and 347.

The fourth modification gives additional options to complete the math requirements with the addition of four 300-level math courses rather than just Math 203. These include Math 301 (Ordinary Differential Equations), Math 304 (Linear Algebra), Math 306 (Multivariable Calculus), Math 310 (Mathematical Models & Applications) and Math 312 (Probability & Statistics for Science & Mathematics).

The fifth modification gives the student the choice of taking Chem 303 (Instrumental Analysis) or Chem 313 (Environmental Chemistry). Both of these courses rely heavily on the use of instrumentation to identify and measure analytes. This will also help the department because it is unlikely that we will be able to offer both courses in the same year.

The sixth modification gives additional options for the upper-level chemistry credits under the chemistry requirements. The added courses are Chem 403 (Advanced Synthesis & Characterization, 2 hrs), Chem 497 (Special Studies, 1 hr) and Chem 498 (Chemistry Internship, 1hr). A minimum of 3 credit hours are required. Chem 313 is removed from this list because of the fifth modification.

These changes do not change any minimum hour requirements for the major.

C. **MODIFY**, on page 81 and 82 of the current catalog, the course options for the **Pre-Pharmacy Option in Chemistry**

**FROM:**

**Pre-Pharmacy Option in Chemistry**

<b>General Education Requirements</b> .....	<b>48/49 hours</b>
Communications .....	9/10 hours
English 101 (or English 101E/L), 102. ....	6/7
Speech Communications 101 .....	3

Social Sciences .....	9 hours
Political Science 101 or 103 .....	3
Economics 204 .....	3
Social Science Elective .....	3
Humanities .....	12 hours
Literature 250 .....	3
History .....	3
Art 101, Music 101, or Theater 101 .....	3
Humanities Elective .....	3
Mathematics .....	6 hours
Mathematics 132 or 137 .....	3
Mathematics 134 .....	3
Natural Sciences .....	12 hours
Biology 105,115 .....	4
Psychology 206, 216 .....	4
Chemistry 111 and 111L .....	4

<b>Pre-Pharmacy Requirements .....</b>	<b>48 hours</b>
Chemistry 112 and 112L .....	4
Chemistry 201 .....	4
Chemistry 202 .....	4
Chemistry 404 .....	3
Biology 106 .....	4
Biology 205 .....	4
Biology 406 .....	4
Biology 215 or 311 .....	4
Physics 201, 202 .....	8
Mathematics 201 .....	3
Mathematics 202 .....	3
Mathematics 203 .....	3

<b>Chemistry Requirements .....</b>	<b>20 hours</b>
Chemistry 203 .....	4
Chemistry 301 .....	4
Chemistry 302 .....	4
Chemistry 303 .....	4
Chemistry 402 .....	3
Chemistry 499 .....	1

Free Electives ..... 4 hours

**Total Hours Required for Graduation ..... 120/121 hours**

**TO:**

**Pre-Pharmacy Option in Chemistry**

**General Education Requirements ..... 48/49 hours**



Communications .....	9/10 hours
English 101 (or English 101E/L), 102.....	6/7
Speech Communications 101 .....	3
Social Sciences .....	9 hours
Political Science 101 or 103 .....	3
Economics 204 .....	3
Social Science Elective .....	3
Humanities .....	12 hours
Literature 250 .....	3
History .....	3
Art 101, Music 101, or Theater 101 .....	3
Humanities Elective .....	3
Mathematics .....	6 hours
Mathematics 132 or 137 .....	3
Mathematics 134 .....	3
Natural Sciences .....	12 hours
Biology 105,115 .....	4
Psychology 206, 216 .....	4
Chemistry 111 and 111L .....	4

**Pre-Pharmacy Requirements .....** **48 hours**

Chemistry 112 and 112L .....	4
Chemistry 201 .....	4
Chemistry 202 .....	4
Chemistry 404 .....	3
Biology 106 .....	4
Biology 205 .....	4
Biology 406 .....	4
Biology 215 or 311 .....	4
Physics 201, 202 .....	8
Mathematics 201 .....	3
Mathematics 202 .....	3
Mathematics 203, 301, 304, 306, 310, or 312 .....	3

**Chemistry Requirements .....** **20 hours**

Chemistry 203 .....	4
Chemistry 301 .....	4
Chemistry 302, 403, 405, 407, 408, 497, 498* .....	4
Chemistry 303 or 313 .....	4
Chemistry 402 .....	3
Chemistry 499 .....	1

\*A minimum of 4 hours must be selected from these courses.

**Free Electives .....** **4 hours**

**Total Hours Required for Graduation .....** **120/121 hours**

**Rationale:** These changes increase the flexibility of courses that can be taken to complete a Pre-Pharmacy Option in Chemistry. As currently written, the courses allowed for the option are restrictive and would exclude the likelihood that students would take

several other suitable upper-level chemistry courses most of which offered for the ACS certified degree. This added flexibility should benefit both the department and the students. Due to the small number of chemistry majors, this will allow course substitutions particularly in the event that a course currently required can't be offered due to low enrollment or is only offered every other year. Appropriate options for upper-level Math courses have also been added as the additional courses would also provide more flexibility for the math requirements for this option.

The first modification adds Math 310 (Mathematical Models & Applications) and Math 312 (Probability & Statistics for Science & Math) as additional options to complete the math requirements for the Pre-Pharmacy degree.

The second modification gives the student the choice of taking Chem 302 (Physical Chemistry II, 4 hrs) or some combination of the following upper level courses to obtain the needed minimum of 4 credit hours: Chem 403 (Advanced Synthesis & Characterization, 2 hrs), Chem 404 (Biochemistry, 3 hrs), Chem 405 (Advanced Organic, 3 hrs), Chem 407 (Intro to Polymer Science, 3 hrs), Chem 408 (Biochemistry II, 3 hrs), Chem 497 (Special Studies, 1 hr), and Chem 498 (Chemistry Internship, 1hr).

The third modification gives the student the choice of taking Chem 303 (Instrumental Analysis) or Chem 313 (Environmental Chemistry). Both of these courses rely heavily on the use of instrumentation to identify and measure analytes. This will also help the department because it is unlikely that we will be able to offer both courses in the same year.

These changes do not change any minimum hour requirements for the major.