STUDENT: _____________________________  Entering Semester: ___________________
CSUID:   _______________________________

GRADUATION REQUIREMENTS
1. Complete the All-University Core Curriculum (AUCC) Requirements  --  See General Catalog
2. Complete the Biomedical Sciences Major Requirements (listed below)
3. Complete a minimum of 120 semester credits
4. Complete a minimum of 42 upper division credits (300, 400, or 500 level)
5. Have a minimum cumulative grade point average of 2.0
6. Complete the Department’s Outcome Assessment Report

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>BMS COURSES</th>
<th>PHYSICAL SCIENCE COURSES</th>
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</thead>
<tbody>
<tr>
<td>LIFE 102 – Attributes of Living Systems (4)</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>LIFE 210 – Introduction to Eukaryotic Cell Biology (3)</td>
<td>CHEM 111 (4)____ CHEM 112 (1)____</td>
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<tr>
<td>LIFE 212 – Introductory Cell Biology Lab (2) __________________________</td>
<td>and</td>
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<tr>
<td>LIFE 201B – Genetics (3) __________________________</td>
<td>CHEM 113 (3)____ CHEM 114 (1)____</td>
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<tr>
<td>BMS 360 – Fundamentals of Physiology (4) ____________________________</td>
<td>Organic Chemistry</td>
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<tr>
<td>BMS 302 – Laboratory in Prin. of Physiology (2) ________</td>
<td>CHEM 341 (3)____ and CHEM 343 (3)____ and</td>
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<tr>
<td>MIP 300 – General Microbiology (3) _________________________________</td>
<td>CHEM 344 (2)____</td>
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<tr>
<td>MIP 302 – General Microbiology Lab (2) ______________________________</td>
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<tr>
<td>ANATOMY (Choose one):</td>
<td>Biology</td>
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<tr>
<td>BMS 301 – Human Gross Anatomy (5) ____</td>
<td>BC 351 (4)____</td>
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<td>OR</td>
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<tr>
<td>BMS 305 – Domestic Animal Gross Anatomy (4) ____</td>
<td>Physics</td>
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<tr>
<td>OR</td>
<td>PH 121 (5)____ and PH 122 (5)____</td>
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<tr>
<td>BMS 330 – Microscopic Anatomy (4) ____</td>
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<tr>
<td>BMS DIRECTED ELECTIVES:</td>
<td>MATHEMATICS AND STATISTICS</td>
</tr>
<tr>
<td>15 credits (see options on reverse side)</td>
<td>MATH 155 (4) ____ OR MATH 160 (4) ____</td>
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<tr>
<td>_____________________________ ____</td>
<td>STAT 301 (3) ____ OR STAT 307 (3) ____</td>
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SENIOR CAPSTONE EXPERIENCE: 5 credits (see options on reverse side)

1. _____________________________  2. _____________________________
**BMS DIRECTED ELECTIVES**
15 credits approved by Advisor

- BMS 192 – Seminar in Biomedical Sciences (1)
- **BMS 260 – Introduction to Biomedical Sciences (3) – required course for first-year students**
- BMS 325 – Cellular Neurobiology (3)
- BMS 330 – Microscopic Anatomy (4) *(if BMS 305 or 301 has already been taken for anatomy requirement)*
- BMS 345 – Functional Neuroanatomy (4) *(if not taken as part of the senior capstone experience)*
- BMS 384* – Supervised College Teaching (max. 3 cr)
- BMS 401 – Laboratory Research in Biomedical Sciences (4)
- BMS 405 – Nerve and Muscle –Toxins, Trauma and Disease (3)
- BMS 409 - Human & Animal Reproductive Biology (3)
- BMS 420 – Cardiopulmonary Physiology (3) *(if not taken as part of the senior capstone experience)*
- BMS 425 – Introduction to Systems Neurobiology (3)
- BMS 430 – Endocrinology (3)
- BMS 450 – Pharmacology (3)
- BMS 460 – Essentials of Pathophysiology (3) *(if not taken as part of the senior capstone experience)*
- BMS 487** - Internship (varies)
- BMS 495** – Independent Study (varies)
- BMS 496 A-D*** – Honors *(breakout sessions for BMS course; max. 2 credits/1 instance)*
- BMS 498** – Research (varies)
- BMS 500 – Mammalian Physiology I (4)
- BMS 501 – Mammalian Physiology II (4)
- BMS 521 – Comparative Reproductive Physiology (3)
- BMS 531 – Domestic Animal Dissection (3)
- BMS 575 – Human Anatomy Dissection (4)
- BC 463 – Molecular Genetics (3)
- BC 465 – Molecular Regulation of Cell Function (3)
- BZ 220 – Introduction to Evolution (3)
- MIP 342 – Immunology (4)
- MIP 351 – Medical Bacteriology (3)

**SENIOR CAPSTONE EXPERIENCE (choose one)**^:
5 credits

- Pathophysiology (SP only):
  - BMS 460 – Essentials of Pathophysiology (3)
  - BMS 461 – Pathophysiology Perspectives (2)

- Neurosciences (SP only):
  - BMS 345– Functional Neuroanatomy (4)
  - BMS 400– Neuroanatomy Case Studies (1)

- Cardiopulmonary Physiology (FA only):
  - BMS 420 – Cardiopulmonary Physiology (3)
  - BMS 421 – Perspectives in Cardiopulmonary Diseases (2)

^Must choose one sequence and take all classes in that sequence to complete the AUCC 4 category requirement for graduation. Classes taken as part of the senior capstone experience cannot be double counted in directed electives.

**ALL-UNIVERSITY CORE CURRICULUM (AUCC) REQUIREMENTS (credits)**

1. Basic Competencies
   - A. Intermediate Writing (3) __________
   - B. Mathematics (3) Met by Major

2. Advanced Writing (3) __________

3. Foundations and Perspectives
   - A. Biological/Physical Sciences (7) Met by Major
   - B. Arts/Humanities (6) __________
   - C. Social/Behavioral Sciences (3) __________
   - D. Historical Perspectives (3) __________
   - E. Global & Cultural Awareness (3) __________

4. Depth and Integration
   - Senior Capstone Experience – choose one of the approved sequences (5)

*No more than 3 credits earned in BMS 384 can be used toward BMS Directed Electives. Additional credits earned in these courses are free electives.

**No more than 3 credits earned in BMS 487, BMS 495, and BMS 498 can be used towards BMS Directed Electives. Additional credits earned in these courses are free electives.

*** Only one instance of BMS 496 can be used toward BMS Directed Electives. Additional credits earned in these courses are free electives.