This transfer plan is intended for students pursuing an A.S. in Engineering at College of Southern Maryland who are interested in pursuing a B.S. in Biomedical Engineering at Stevenson University. The equivalencies below demonstrate how a student can meet both the requirements of the associate degree and prepare for a seamless transfer to Stevenson. Any student who enters Stevenson with an A.A. or A.S. degree will have completed all general education requirements with the exception of composition II if not taken at the community college. Please note:

- Only courses that have course equivalencies are displayed. This guide does not show all transferable courses from this college. It also does not display all Stevenson University courses that will fulfill a specific requirement.
- Program requirements must be completed with a grade of C or better, and general education courses must be passed with a grade of D or better.
- Stevenson University will accept up to 70 credits from 2-year institutions. Up to 90 credits can be applied to degree requirements from a combination of 2-year institutions, 4-year institutions, and non-direct classroom instruction (including CLEP, AP, and other nationally recognized standardized examination scores). For additional information about credit transfer, please see: http://www.stevenson.edu/admissions-aid/getting-started/transfer-students/transfer-credit-evaluation/
- For scholarship information please see the “Paying for College” page on: http://www.stevenson.edu/transfer
- Transfer plans are intended to be used as planning tools. If you need additional assistance in selecting courses to take prior to transferring to Stevenson University, contact Stevenson Admissions at 443-352-4450.

<table>
<thead>
<tr>
<th>College of Southern Maryland Degree Requirements</th>
<th>Stevenson Equivalency</th>
<th>Category</th>
<th>Credits Transferred</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR-1100 - Introduction to Engineering</td>
<td>BME 101 Introduction to Biomedical Engineering</td>
<td>Program Requirement</td>
<td>3</td>
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<tr>
<td>CHE-1200 - General Chemistry I/L* (4) and CHE-1210 - General Chemistry II/L* (4)</td>
<td>CHEM 115/115L General Chemistry</td>
<td>Program Requirement</td>
<td>8</td>
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<tr>
<td>EGR-1210 - Statics</td>
<td>TR 199</td>
<td>General Elective</td>
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<tr>
<td>MTH-1200 - Calculus I and Analytic Geometry</td>
<td>MATH 220 Calculus I</td>
<td>Program Requirement</td>
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<tr>
<td>MTH-1210 - Calculus II</td>
<td>MATH 221 Calculus II</td>
<td>Program Requirement</td>
<td>4</td>
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<tr>
<td>MTH-2200 - Calculus III</td>
<td>MATH 222 Calculus III</td>
<td>Program Requirement</td>
<td>4</td>
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<tr>
<td>MTH-2210 - Differential Equations</td>
<td>Fulfills requirement for: MATH 321 Introduction to Differential Equations</td>
<td>Program Requirement</td>
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<tr>
<td>PHY-1210 - Calculus-Based Physics I: Mechanics and Fluids (3) and PHY-1210L - Calculus-Based Physics I: Lab (1)</td>
<td>PHYS 215 General Physics I</td>
<td>Program Requirement</td>
<td>12</td>
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<tr>
<td>PHY-2200 - Calculus-Based Physics II: Vibrations, Heat, and Electricity (3) and PHY-2200L - Calculus-Based Physics II: Lab (1)</td>
<td>PHYS 216 General Physics II</td>
<td>Program Requirement</td>
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<tr>
<td>PHY-2210 - Calculus-Based Physics III: Magnetism, Optics, and Modern Physics (3) and PHY-2210L - Calculus-Based Physics III: Lab (1)</td>
<td>PHYS 299</td>
<td>Program Requirement</td>
<td></td>
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</table>

* denotes lecture/lab credit.
<table>
<thead>
<tr>
<th>College of Southern Maryland Degree Requirements</th>
<th>Stevenson Equivalency</th>
<th>Category</th>
<th>Credits Transferred</th>
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</thead>
<tbody>
<tr>
<td>Electives: SU Recommends:</td>
<td></td>
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<tr>
<td>• CHE-2200 - Organic Chemistry I* (3) and CHE-2200L - Organic Chemistry I - Lab* (1)</td>
<td>CHEM 210 Organic Chemistry I/CHEM 210L Organic Chemistry I*</td>
<td>Program Requirements</td>
<td>8</td>
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<tr>
<td>• BIO-1060 (3) Principles of Biology I and BIO-1060L: Principles of Biology Lab (1)</td>
<td>Biology 113 General Biology I: Cell Biology and Genetics and Biology 113*</td>
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<tr>
<td>ENG-1010 - Composition and Rhetoric</td>
<td>English 151: College Writing I</td>
<td>General Education Requirement</td>
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<tr>
<td>General Education Social/Behavioral Science</td>
<td>General Education Social Science</td>
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<td>(6 credits)</td>
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<tr>
<td>General Education Arts</td>
<td>General Education Fine Arts</td>
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<tr>
<td>General Education Humanities</td>
<td>General Education Humanities</td>
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<tr>
<td>Total</td>
<td>65 credits</td>
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Please note: A minimum of 60 credits are needed for the associate’s degree

Remaining Courses to be taken at Stevenson

Students who complete the plan above including all recommended courses and earn the A.S. in Engineering will take the following courses at Stevenson to meet the B.S. in Biomedical Engineering requirements. Students who transfer before completing the associate degree may have more general education and program requirements to take and fewer free electives.

General Education Requirements (3 credits)
English 152 Writing about Literature

Total Remaining Program Requirements (52 credits)

SCI 215 Writing in the Sciences, 3 credits
BME 205 Problem Solving and Design, 4 credits
BME 210 Thermodynamics, 3 credits
BME 230 Biofluids, 3 credits
BME 313 Biostatistics, 3 credits
BME 315 Biomaterials, 4 credits
BME 320 Biomedical Engineering Internship, 3 credits
BME 335 Instrumentation, 3 credits
BME 340 Systems Physiology, 4 credits
BME 380 Biomechanics, 4 credits
BME 470/475 Biomedical Engineering Design Capstone I & II*, 6 credits

Basic Science Electives (2 courses, 6-8 credits), choose from:

BIO 217 Principles of Biochemistry
BIO 222 Human Anatomy
BIO 230 Genetics
BIO 310 Cell Biology
BIO 322 Human Physiology
BIO 330 Molecular Genetics
BIOCH 327 Biochemistry
BICH 427 Advanced Biochemistry
CHEM 211 Organic Chemistry II/CHEM 211L Organic Chemistry II Laboratory
CHEM 340 Medicinal and Drug Chemistry

**BME electives. Take two courses, choose from: (6 credits)**

BME 325 Transport Systems*
BME 330 Bioelectric Systems*
BME 365 Independent Research in Biomedical Engineering*
BME 425 Synthetic Biology*

*Courses currently under development. Suitable substitutes will be identified as needed.

**Additional Requirements: (up to 6 credits)**

Up to 6 credits of general electives if needed to meet the 120-credit minimum for the B.S. Degree

Total to be taken at SU: 55-60.

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>YEAR 3</th>
<th>SEMESTER</th>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>RECOMMENDED COURSES</td>
<td>BME 205 Problem Solving and Design</td>
<td>4</td>
<td>Science elective (2 of 2)</td>
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<tr>
<td></td>
<td>ENG 152 College Writing II</td>
<td>3</td>
<td>BME 210 Thermodynamics</td>
</tr>
<tr>
<td></td>
<td>BME 313 Biostatistics</td>
<td>3</td>
<td>BME 230 Biofluids</td>
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<td>BME 380 Biomechanics</td>
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<td>BME 320 Biomedical Engineering Internship</td>
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<td>Science Elective (1 of 2)</td>
<td>3-4</td>
<td>SCI 215 Writing in the Sciences</td>
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<tr>
<td>CREDITS</td>
<td>17-18 CREDITS</td>
<td>15-16 CREDITS</td>
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<table>
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<tr>
<th>YEAR 4</th>
<th>SEMESTER</th>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>RECOMMENDED COURSES</td>
<td>BME 335 Instrumentation</td>
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<td>BME 315 Biomaterials</td>
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<td>BME 340 Systems Physiology</td>
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<td>BME 475 BME Design Capstone II</td>
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<td>General elective (if needed)</td>
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<td>BME Elective (2 of 2)</td>
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<td></td>
<td>BME Elective (1 of 2)</td>
<td>3-4</td>
<td>General elective (if needed)</td>
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<tr>
<td></td>
<td>BME 470 BME Design Capstone I</td>
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<tr>
<td>CREDITS</td>
<td>16-17 CREDITS</td>
<td>13 CREDITS</td>
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Signed 11/7/2020