TILLAMOOK BAY COMMUNITY COLLEGE
TRANSFER GUIDE FOR MICROBIOLOGY AND BIOHEALTH SCIENCES MAJORS
Majors in the Department of Microbiology

Microbiology
Microbiologists study the diverse properties and roles of microbes with respect to human and environmental health. These organisms include bacteria, archaea, phytoplankton, zooplankton, parasites and fungi and viruses.

Microbiology graduates have careers in basic research, health professions, industry, agriculture, environment, and food science.

BioHealth Sciences
The BioHealth Sciences major is for students pursuing health profession careers. The curriculum contains most of the prerequisites required by professional schools. Students may declare one of the BHS options. Admission to professional schools is competitive and completing the BHS coursework does not guarantee acceptance. Successful applicants have A's and B's in their science and math coursework along with community service in health care and/or research experience.

BioHealth Sciences Options
- Pre-Clinical Laboratory
- Pre-Dentistry
- Pre-Medicine/Podiatry
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Physician Assistant

Your Bachelor’s Degree in the OSU College of Science:
- A minimum of 180 credits are required for graduation. 60 must be upper division (300 and 400-level courses).
- A maximum of 124 credits earned at a community college may be applied toward a bachelor’s degree at OSU.
- Only courses with letter prefixes and numbers above 100 can be accepted.
- See OSU Catalog for a list of courses required for your major and option: http://catalog.oregonstate.edu/DegreeSearcher.aspx?formstate=undermajors

Courses for these Majors: (offered at the community college)
Mathematics, General Chemistry, and some Baccalaureate Core are priority courses to complete before transferring to OSU. For BHS major, Anatomy and Physiology courses (if required by option) should be completed at OSU, not at the community college.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>TBCC Equivalent</th>
<th>OSU Courses for Microbiology Majors</th>
<th>OSU Courses for BioHealth Sciences Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>MTH 111, MTH 112, MTH 251, MTH 252</td>
<td>MTH 251, MTH 252</td>
<td>Two MTH courses of MTH 111 or higher (Math requirements differ by option)</td>
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<tr>
<td></td>
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</tr>
<tr>
<td>General Chemistry</td>
<td>CH 221, 222, 223</td>
<td>CH 231/261, 232/262, 233/263^</td>
<td>CH 231/261, 232/262, 233/263^</td>
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<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Principles of Biology</td>
<td>BI 211, 212, 213**</td>
<td>BI 211, 212, 213**</td>
<td>BI 211, 212, 213**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Physics</td>
<td>PHY 201, 202, 203</td>
<td>PH 201, 202, 203</td>
<td>PH 201, 202, 203</td>
</tr>
<tr>
<td>Psychology</td>
<td>PSY 201A and 202A</td>
<td>Psychology not required</td>
<td>PSY 201 and 202</td>
</tr>
<tr>
<td>Statistics</td>
<td>MTH 243</td>
<td>Take ST 351 at OSU; no community college equivalent</td>
<td>ST 201 or ST 351</td>
</tr>
</tbody>
</table>
General Education Courses: (called the Baccalaureate Core)

- Complete one course in each Perspectives category with no more than two in the same department.
- The Oregon AAOT satisfies all lower division requirements of the Baccalaureate Core (all but Synthesis Courses*).
- The College of Science allows courses to double count between your major and the Baccalaureate Core.
- See Baccalaureate Core transfer guide* for specific community college courses meeting these requirements: http://oregonstate.edu/admissions/main/baccalaureate-core-course-equivalencies

<table>
<thead>
<tr>
<th>SKILLS COURSES</th>
<th>Math</th>
<th>Completed as part of major. Required to transfer.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WR 121</td>
<td>Required to transfer.</td>
</tr>
<tr>
<td></td>
<td>WR 121</td>
<td>Required to transfer.</td>
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<tr>
<td></td>
<td>WR 121</td>
<td>Required to transfer.</td>
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<tr>
<td></td>
<td>WR 121</td>
<td>Required to transfer.</td>
</tr>
<tr>
<td>Writing I</td>
<td>Many options, see transfer guide*</td>
<td></td>
</tr>
<tr>
<td>Writing II</td>
<td>Many options, see transfer guide*</td>
<td></td>
</tr>
<tr>
<td>Speech (Writing III)</td>
<td>Many options, see transfer guide*</td>
<td></td>
</tr>
<tr>
<td>Fitness</td>
<td>HE 295 and PE 295</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PERSPECTIVES COURSES</th>
<th>Biological Science</th>
<th>Completed as part of major</th>
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<tbody>
<tr>
<td></td>
<td>Physical Science</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td></td>
<td>2nd Biological or Physical Science</td>
<td>Completed as part of major</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Many options, see transfer guide*</td>
<td></td>
</tr>
<tr>
<td>Literature and the Arts</td>
<td>Many options, see transfer guide*</td>
<td></td>
</tr>
<tr>
<td>Social Processes and Institutions</td>
<td>Many options, see transfer guide*</td>
<td></td>
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<tr>
<td>Western Culture</td>
<td>Many options, see transfer guide*</td>
<td></td>
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| DPD COURSE | Difference, Power, & Discrimination | Many options, see transfer guide* |

<table>
<thead>
<tr>
<th>SYNTHESIS COURSES*</th>
<th>Contemporary Global Issues</th>
<th>Upper division course, take at OSU</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Science, Technology, &amp; Society</td>
<td>Upper division course, take at OSU</td>
</tr>
</tbody>
</table>

Important Notes and Resources:

- For science students, the best time to transfer is fall term, particularly due to the science series courses. Talk with an OSU advisor about your specific timeline.
- Students do not have to complete a transfer degree in order to transfer to OSU. Following the sample two-year plan below can help ease the transfer.
- Preparing to apply to OSU? See admissions info: http://oregonstate.edu/admissions/transfer.html
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: http://oregonstate.edu/partnerships/students

Example Two-Year Transfer Plan:
This is one possible plan based on full-time attendance. See your community college academic advisor to create your personalized plan.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall Term</th>
<th>Winter Term</th>
<th>Spring Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
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</tr>
<tr>
<td>General Chemistry</td>
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</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall Term</th>
<th>Winter Term</th>
<th>Spring Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math (if needed) or Bacc Core</td>
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<td></td>
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<tr>
<td>Physics</td>
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<td></td>
</tr>
</tbody>
</table>

Advising Contacts:
Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. See your community college advisor first, and use this Transfer Guide to help you plan. Also, consider visiting OSU to take a campus tour and meet with an advisor. See http://oregonstate.edu/visitosu/tour to schedule your personalized visit.

Tillamook Bay Community College http://www.tbcc.cc.or.us/index.php/getting-started-new-student-at-tbcc/academics/academic-advising
OSU Microbiology
OSU BioHealth Sciences Dr. Linda Bruslind, 541-737-1842, bruslindl@oregonstate.edu
OSU College of Science 541-737-4811, science@oregonstate.edu