Proposal for Delivery of an Existing OSU Program at OSU-Cascades.

Submit proposals to: Office of Academic Programs and Academic Assessment
110 Kerr Admin -- Oregon State University

For instructions, see http://oregonstate.edu/ap/curriculum/MOUs/mou.html.
Please attach Proposal, Library Evaluation (performed by the library), Liaison Correspondence, Faculty Curriculum Vitae, and Budget Sheets, as appropriate.

Title of Program (include if it is a major, minor, option or certificate)  Effective Date:

B.S., General Science, Pre-Medicine and Pre-Education Options only  1/01/2011

Department/Program:  College:
General Science  Science

I have reviewed and approve this proposal:

Corvallis-Based Faculty and Administration  Cascades-Based Faculty and Administration

Sign (Dept Chair/Head; Director) Date  Sign (Dept Chair/Head; Director) Date

11/22/2010

Sign (Dean of College) Date  Sign (Dean of OSU-Cascades)

11/22/2010  

Sign (Dean, Graduate School- If Grad program)  Sign (CEO of OSU-Cascades)
Proposal for Delivery of an existing OSU Program at OSU-Cascades

1. Program Description

   a. B.S., General Science, Pre-Medicine Option & Pre-Education Option

   b. College of Science

   c. Who will be the administrator(s) of the OSU-Cascades program?
      - Marla Hacker, Dean of Academic Programs, OSU-Cascades
      - Sherman Bloomer, Dean, College of Science

   d. Briefly describe the academic program, and provide a program degree audit sheet that lists all courses (including number of credits) and indicates how each course will be offered at OSU-Cascades [resident course {COCC, OSU, OU, EOU, other}, distance education, web, etc.].
      - The academic program is the OSU General Science degree, Options in Pre-Medicine & Pre-Education only.
      - Marla Hacker, Dean of Academic Programs, OSU-Cascades, and Janine Trempy, Associate Dean, College of Science, will meet once a term or as necessary to share, review and discuss the degree curriculum, course outcomes, assessment, and related issues. This close collaboration continues the work of these and other individuals involved in creating this MOU.

Pre-medicine is a pre-professional program for students who wish to pursue a career in the health professions. Health professions are respected and rewarding professions that demand dedication, perseverance, and compassion. This curriculum can be used to meet the requirements to enter a variety of health professional programs such as medical, dental, pharmacy, physician assistant, physical therapy, optometry, or nursing school. Requirements vary from school to school to school, so it is the student’s responsibility to check specific requirements for any school to which the student plans to apply. Admission to all health professional programs is competitive, so completion of required coursework facilitates, but does not guarantee acceptance to any professional program.

Pre-education is a pre-professional option within a General Science bachelor’s degree and is well suited for the person with a special interest in science and mathematics. This major provides a broad, general education in the sciences with elective space for substantial exposure to the humanities and social sciences. It can be adapted for students who wish to enter a teacher licensure program and become an upper elementary or middle school teacher (grades 3–10) or for those wishing to become secondary school science or math teachers (grades 5–12).

### Degree Audit Sheet for Pre-Medical Option*

<table>
<thead>
<tr>
<th>Course</th>
<th>Completed</th>
<th>Credit</th>
<th>Institution Providing Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baccalaureate Core</td>
<td></td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>WR 121</td>
<td></td>
<td>3</td>
<td>COCC</td>
</tr>
<tr>
<td>WR II</td>
<td></td>
<td>3</td>
<td>COCC</td>
</tr>
<tr>
<td>WR III/Speech</td>
<td></td>
<td>3</td>
<td>COCC</td>
</tr>
<tr>
<td>Fitness</td>
<td></td>
<td>3</td>
<td>COCC</td>
</tr>
<tr>
<td>Math</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Biological Science</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Additional Bio or Phys Science</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Western Culture</td>
<td></td>
<td>3</td>
<td>COCC</td>
</tr>
<tr>
<td>Course Category</td>
<td>Credits</td>
<td>Institution</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>---------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Literature &amp; Arts</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Social Processes</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Difference, Power, Discrimination</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Contemporary Global Issues (Synthesis)</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Science, Technology, Society (Synthesis)</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td><strong>Major Requirements</strong></td>
<td><strong>96</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Chemistry CH 221, 222 &amp; 223</td>
<td>15</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>General Biology BI 211, 212 &amp; 213</td>
<td>12</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>General Physics PH 201, 202 &amp; 203</td>
<td>15</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Calculus MTH 251 &amp; 252</td>
<td>8</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Statistical Methods MTH 244 or ST 351</td>
<td>4</td>
<td>COCC or E-Campus</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry CH 331, 332 &amp; 337</td>
<td>12</td>
<td>OSU-C or E-Campus</td>
<td></td>
</tr>
<tr>
<td>Cell &amp; Molecular Biology BI 314</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>General Biochemistry BB 450 &amp; 451</td>
<td>7</td>
<td>OSU-C or E-Campus</td>
<td></td>
</tr>
<tr>
<td>Quantitative Chemistry CH 324 (or sub CH 411)</td>
<td>4</td>
<td>OSU-C or E-Campus</td>
<td></td>
</tr>
<tr>
<td>Cell Biology BI 460</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Embryology Z 425 (or sub Microbiology MB 302 &amp; 303)</td>
<td>5</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Genetics BI 311</td>
<td>4</td>
<td>OSU-C or E-Campus</td>
<td></td>
</tr>
<tr>
<td>History of Science (WIC) HSTS 415, 417, or 425</td>
<td>3</td>
<td>OSU-C or E-Campus</td>
<td></td>
</tr>
<tr>
<td><strong>Electives to total 180 total credits and 60 upper division</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Possible electives (Need 45 cr. upper division science, typically 6 more than listed above):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations in Medical Physiology BI UDT (UO course, BI 358, to be taught 2010-11 or 2011-12 in transition years)</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Neurobiology BI UDT (UO course, BI 360, to be taught 2010-11 or 2011-12 in transition years)</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>BI UDT Bacterial-Host Interactions (UO course, BI 433, to be taught 2010-11 or 2011-12 in transition years)</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Evolutionary Biology of Infectious Diseases BI UDT (UO course, BI 489, to be taught 2010-11 or 2011-12 in transition years)</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>General Ecology BI 370</td>
<td>3</td>
<td>OSU-C or E-Campus</td>
<td></td>
</tr>
<tr>
<td>Evolution BI 445</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Anatomy &amp; Physiology (UO courses—ANAT 311 &amp; 312, HPHY 313, 314, 316 &amp; 317—to be taught 2010-11 or 2011-12 in transition years)</td>
<td>15</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3, 3, 3, 2, 2, 2)</td>
<td>OSU-C</td>
<td></td>
</tr>
</tbody>
</table>
# Degree Audit Sheet for Pre-Education Option*

<table>
<thead>
<tr>
<th>Course</th>
<th>Completed</th>
<th>Credit</th>
<th>Institution Providing Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Baccalaureate Core &amp; Lower Division</strong></td>
<td></td>
<td>95-99</td>
<td></td>
</tr>
<tr>
<td>WR 121</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>WR II</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>WR III/Speech</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Fitness HHS 231 + Lab or PAC</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Math</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Biological Science</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Additional Bio or Phys Science</td>
<td>covered by major</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Western Culture (HST 101, 102, or 103)</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity (GEO 107 or 202)</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Literature &amp; Arts (recommend. ART 101, ENG 106, TA 200)</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Social Processes (PSY 201 or 202)</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Difference, Power, Discrimination (HST 201, 202, or 203)</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Contemporary Global Issues (Synthesis)</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Science, Technology, Society (Synthesis)</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>General Chemistry CH 221, 222 &amp; 223</td>
<td>15</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>General Biology BI 101, 102 &amp; 103 or 211, 212 &amp; 213</td>
<td>12</td>
<td>COCC</td>
<td>NOTE: 200 level is required for upper division Biology courses</td>
</tr>
<tr>
<td>Physical Science (choose 3 of the following: PH 201, 202, 203, 211, 212, 213, GS 104, 107, 108))</td>
<td>11-15</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Earth Science (choose 2: G 201, 202, 203, GS 106)</td>
<td>8</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>College Algebra MTH 111</td>
<td>4</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Math for Elementary Teachers MTH 211, 212 &amp; 213</td>
<td>12</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>WIC Course (HSTS 415, 419, 422, or 425)</td>
<td>4</td>
<td>OSU-C or E-campus</td>
<td></td>
</tr>
<tr>
<td><strong>Education and Psychology Core Courses</strong></td>
<td></td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>General Psychology PSY 201 &amp; 202</td>
<td>6</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Multicultural Issues in Educational Settings ED 219</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Purpose/Structure of Education ED 216</td>
<td>3</td>
<td>COCC</td>
<td></td>
</tr>
<tr>
<td>Practicum Experience TCE 309</td>
<td>6</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Adolescent Development HDFS 313</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Technology Foundations for Teaching Math and Science SED 412</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Science Materials and Laboratories SED 413 or Mathematics Materials and Laboratories SED 414</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td><strong>Upper Division Science – Minimum of 27 credits, choices include:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Ecology BI 370</td>
<td>3</td>
<td>OSU-C or E-campus</td>
<td></td>
</tr>
<tr>
<td>Evolution BI 445</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry CH 331, 332 &amp; 337</td>
<td>12</td>
<td>OSU-C or E Campus</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>---------</td>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Cell &amp; Molecular Biology BI 314</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>General Biochemistry BB 450 &amp; 451</td>
<td>7</td>
<td>OSU-C or E-campus</td>
<td></td>
</tr>
<tr>
<td>Cell Biology BI 460</td>
<td>3</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Genetics BI 311</td>
<td>4</td>
<td>OSU-C or E-campus</td>
<td></td>
</tr>
<tr>
<td>MB 302 &amp; 303</td>
<td>5</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>Bacterial-Host Interactions BI UDT (UO course,</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>BI 433, to be taught 2010-11 or 2011-12 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>transition year)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neurobiology BI UDT (UO course, BI 360, to be</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>taught 2011-12 in transition year)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations in Medical Physiology BI UDT</td>
<td>4</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>(UO course, BI 438, to be taught 2010-11 or</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011-12 in transition years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anatomy &amp; Physiology ANAT UDT (UO courses—</td>
<td>15</td>
<td>OSU-C</td>
<td></td>
</tr>
<tr>
<td>ANAT 311 &amp; 312, HPHY 313, 314, 316, 317—to be</td>
<td>(3, 3, 3, 2, 2, 2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>taught 2010-11 or 2011-12 in transition years)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Electives to total 180 total credits and 60 upper division**

* Note both audit sheets are consistent with those used in Corvallis.

**e.** Indicate in what ways the proposed program at OSU-Cascades will differ from the OSU main campus program.
- OSU-Cascades will not offer as many options as the OSU main campus program
- OSU-Cascades will not have as many courses for students to choose from in the “Survey” and “Advanced and Variable” categories.

**f.** List any special requirements or prerequisites for admission to the program at OSU-Cascades
- None

**g.** Is there an accrediting agency or professional society that has established standards for this program? If so, is the program currently accredited? If accredited, what steps would be needed to ensure that accreditation is maintained vis-à-vis the OSU-Cascades offering? Does the accrediting body require notification of the program offering at a new location?
- There is no accrediting body for the General Science, B.S.

**2. Demand**

**a.** List any similar programs offered at the proposed or nearby location(s).
- This program is replacing the UO General Science program which has been offered at OSU-Cascades. Part of the agreement between Provosts was that OSU would take over the UO majors so that opportunities for students would not be lost. General Science is one of those majors. The UO General Science major currently has 79 students enrolled, making it one of the largest programs at OSU-Cascades. In 2009-2010 the degree enrolled 69 students. Central Oregon Community College, the main source of transfer students to Cascades, currently has 154 students enrolled in pre-medicine.

**b.** Provide evidence of need for the program at the new location(s).
- See part a.

**c.** Estimate enrollment and number of graduates over the next five years. Will any enrollment limitation be imposed? If so, how will prospective students be enrolled be selected?
- We expect enrollment in this program to grow by 15-20% per year over the next five years. No enrollment limitations will be imposed.
3. Personnel

a. List the names and qualifications of faculty (regular and adjunct) who will be involved in delivering the program at OSU-Cascades, and their tentative teaching assignments. Will new faculty be needed?

- Part of the agreement between Provosts for transferring the UO programs to OSU was that we would retain the UO full-time faculty as OSU full-time faculty with rank to be determined in a process separate from the MOU. Therefore, the same people who are currently offering the UO General Science program at OSU-Cascades, Patrick N. Ball, Ph.D., and Matt R. Orr, Ph.D., will be offering the OSU General Science program in the future. The College of Science and OSU-C will collaborate to determine the rank of these two full-time faculty.

- Below we include a list of the adjunct faculty UO has relied on to offer the General Science degree. While we will continue to employ adjuncts for this degree we do not have any agreement with specific adjuncts at this time. The list is meant to demonstrate the availability of faculty resources in the region.

Regular Faculty:

Patrick Noel Ball, The University of Montana, Missoula, Montana, Ph. D. 2001 - Microbiology with Biochemistry minor; The University of Montana, Missoula, Montana, BS 1991 – Physiology, Chemistry minor

<table>
<thead>
<tr>
<th>Course</th>
<th>( \text{BI} ) 311 Genetics</th>
<th>( \text{MB} ) 302, 303 General Microbiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 314 Cell &amp; Molecular Biology</td>
<td>( \text{BI} ) 314 Cell &amp; Molecular Biology</td>
<td>( \text{BB} ) 450 &amp; 451 Biochemistry</td>
</tr>
<tr>
<td>BI 460 Cell Biology</td>
<td>( \text{BI} ) UDT Bacterial-Host Interactions</td>
<td></td>
</tr>
</tbody>
</table>

Matthew Robert Orr, Population Biology, University of California, Davis, Ph.D., 1995; Biology, Amherst College, Amherst, Massachusetts, Biology, BA, Magna Cum Laude, Phi Beta Kappa.

<table>
<thead>
<tr>
<th>Course</th>
<th>( \text{BI} ) 370 Ecology</th>
<th>( \text{BI} ) 445 Evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 469/569 (UO) Ecological Restoration (OSU FW 445)</td>
<td>( \text{BI} ) UDT Animal Behavior</td>
<td></td>
</tr>
<tr>
<td>BI UDT Evolutionary Biology of Infect Disease (UO 489)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Adjunct Faculty:

Sarah Fuller, Ecology, Evolution & Behavior, University of MN, M.S., 1997; Botany, University of Maryland, B.S., summa cum laude

<table>
<thead>
<tr>
<th>Course</th>
<th>( \text{SED} ) 412 Technology Foundations for Teaching Math and Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{SED} ) 413 Science Materials and Laboratories</td>
<td></td>
</tr>
<tr>
<td>( \text{SED} ) 414 Mathematics Materials and Laboratories</td>
<td></td>
</tr>
</tbody>
</table>

Eddie Johnson, Anatomy & Neurobiology, Colorado State University Biology (cum laude), PhD, 1988; Zoology, 1981, University of Vermont, M.S., 1981; City College of New York, B.S., 1974

<table>
<thead>
<tr>
<th>Course</th>
<th>( \text{MB} ) 302 &amp; 303 Microbiology and Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{BI} ) UDT (UO course) Investigations in Medical Physiology, BI 358</td>
<td></td>
</tr>
<tr>
<td>( \text{BI} ) UDT (UO course) Neurobiology, BI 360</td>
<td></td>
</tr>
</tbody>
</table>

Carol Higginbothom, Biochemistry, Montana State University, Ph.D., 1996; Central College, Pella, Iowa, Bachelor of Arts awarded Cum Laude, 1992

<table>
<thead>
<tr>
<th>Course</th>
<th>( \text{BB} ) Physiological Biochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 331, 335, 336, and labs 332, 337 Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CH 339 (UO course) Analytical Chemistry</td>
<td></td>
</tr>
</tbody>
</table>
b. Estimate the number and type of support staff needed to provide the program at the new location(s).
   - All current UO support staff will be joining current OSU support staff to deliver the same total programs currently offered, so no new staff are required.

4. Other Resources

   a. Describe facilities (e.g., buildings, labs, equipment) necessary to offer the program at the new location(s).
      - All current facilities needed to offer the current UO General Science program will still be available, so no new facilities are needed.

   b. Indicate how library needs will be met.
      - The UO General Science program is already supported at OSU-Cascades, so there are no new Library needs.

   c. Indicate how students at the new location(s) will receive student services (e.g., academic advising, etc.).
      - All current student services for UO General Science students will still be available, so no new services are required.

5. Budgetary Impact

   a. Indicate the estimated cost of the program for the first four years of its operation. (Use the “Budget Outline” and “Budget Outline Instructions” forms on the Forms and Guidelines Web site.)
      - The current UO programs are supported by the tuition plus RAM generated by UO students in those programs. OSU-Cascades currently pays UO a lump sum equal to the tuition plus RAM for the UO FTE, and that amount covers all costs for the UO programs. Therefore, there will be no impact on OSU-Cascades’ budget from taking over the UO programs. OSU-Cascades will simply keep the tuition plus RAM and pay the same faculty, staff, etc. in the General Science program directly. The only exception is that the UO Administrator will be replaced by an OSU administrator, Marla Hacker, OSU-C, Dean of Academic Programs. No additional funds are required for this administrator.
      - The expenses we expect are minimal and concern (1) faculty transitions in the form of business cards, moving offices, etc., (2) one-time expenses such as marketing during transition of UO programs, and (3) program brochures and related program-specific marketing. Therefore, there will be only a small impact on OSU-Cascades’ budget from taking over the UO programs, most of which will be one-time expenses. Provost Johnson has authorized the use of the campus fund balance for expenditures related to the transition of programs from UO to OSU-Cascades.

b. If the program will be financed from existing resources:

   1. Describe what the budgetary unit will be doing that is not currently done in terms of additional activities.
      o See section a above – no additional activities are needed.

   2. State what these new activities will cost and whether financed or staffed by shifting of assignments within the budgetary unit or reallocation of resources within the institution. State which resources will be moved and how this will affect those programs losing resources.
      o See above.
6. Draft of the MOU – the following template is required.

a. The program title and limitations (if any).
   - BS, General Science, Pre-Medicine and Pre-Education Options
   - No limitations

b. What are the responsibilities of the OSU-Cascade campus administration, faculty and staff in order to deliver the program?
   - Marla Hacker, Dean of Academic Programs will oversee the UO programs that are being phased out until a new administrator is hired. OSU-Cascades staff in Enrollment Management and Student Affairs already serve both OSU and UO students.

c. What are the responsibilities of the OSU-Main campus administration, faculty and staff in order for the program to be delivered at OSU-Cascades?
   - Given the current realignments at OSU, and the Division of Arts and Sciences in particular, it is impossible to designate a home department for the faculty transferring from UO at this time. The two faculty will have an academic home in the College of Science within the Division of Arts and Sciences. The College of Science will therefore be involved in faculty evaluation, in collaboration with the OSU-Cascades supervisor, a process that has been successfully developed in the past few years as OSU-C has grown our academic majors in coordination with the main campus in Corvallis. Once the structure of the School of Life Sciences in the College of Science is clear, we will initiate discussions on the appropriate rank and department home for the OSU-Cascades faculty members.

d. Provide documentation of discussion of the proposal for the new program with the faculty of the sponsoring department on the Corvallis campus.
   See attached e-mails between Cascades and Corvallis faculty, administrators & advisors and faculty letters of support.

e. Signatories to the MOU.
   See Signature Page.
Emails between Cascades and College of Science, General Science MOU

- The list begins with the most recent emails and ends with the initial emails.

Sent:       Wednesday, November 17, 2010 1:37 PM  
To:         Bloomer Sherman [sherman.bloomer@oregonstate.edu]  
Attachments: General Science MOU Draft 4.docx (35 KB)[Open as Web Page]; General Science Signature ~1.pdf (60 KB)[Open as Web Page]  
Sherm,

I've integrated (accepted) your edits and here's the document with a few updates on my end and a question for you on faculty support (see #6 in MOU). Let me know what you think.

I've also attached the signature page. Thanks again.

Natalie

---------

From: Bloomer Sherman [sherman.bloomer@oregonstate.edu]  
Sent:       Wednesday, November 17, 2010 11:59 AM  
To:         Dollar, Natalie  
Cc:            Trempy, Janine - Email Forward  
Subject: Re: GS Cascades MOU

Natalie:

Janine poked me and I've attached the copy I had with a couple of edits, mostly just for clarification. If those are good, go ahead and accept them and send it back. I noticed the copy I was working on didn't have a signature page attached...if you want to include that I can get you an electronic signature easily enough and get a hard copy in the mail.

Thanks for all your efforts on this, this is an exciting change. Sorry I've been a bottleneck. I look forward to meeting you sometime.

Best,  
Sherm

******************************************************************************************

MOUs for pre-reading  
Dollar, Natalie  
This message was sent with High importance.  
Sent:       Tuesday, November 09, 2010 12:28 PM  
To:         Bailey, Mike; Perry, Gregory  
Attachments: General Science MOU Draft 3.docx (42 KB)[Open as Web Page]; MOU Psychology Draft 3.docx (43 KB)[Open as Web Page]  
Mike and Greg,

This email is a follow-up to the voicemail I left for Mike and the conversation I had with Greg earlier today.

Attached are the draft MOUs for Psychology and General Science. Both have been vetted in their colleges/departments and at Cascades. As I mentioned in my message Carol Brown, with whom I briefly worked this summer, suggested I send the MOUs to you two and request a phone meeting to discuss the MOUs prior to submitting to Curriculum Council.

I will be on campus in Corvallis late Wed. and all day Th/Fr for the Leadership Academy and can slip out to chat
with you if you would like.

Thank you in advance for your assistance with this process. I very much look forward to working with you two and the entire Curriculum Council. Please do not hesitate to contact me with questions/concerns/etc.

Natalie Dollar

-----Original Message-----
From: Dollar, Natalie
Sent: Monday, September 27, 2010 3:14 PM
To: mjb@eecs.oregonstate.edu
Subject: Cascades MOUs

Mike,

My name is Natalie Dollar and I will be leading the transition of UO programs into OSU degrees offered at Cascades. As such, I will be working closely with the Curriculum Council on the MOUs.

I met with Carol Brown when I was in Corvallis last Friday and am hoping to chat with you soon--phone or Skype perhaps. At this point Cascades is working with Janine Trempy in COS on a General Science MOU and with John Edwards, Psychology on a Psychology major and minor MOU. We will also possibly be working on a Math MOU and I've been in touch with Dennis. Finally, we'll be working on a social science stand-alone degree MOU (sociology, for instance). Then, we'll be submitting a Category 1 Proposal for a new social science-oriented degree in place of UO's social science degree which OSU does not offer.

If you have some time this week to touch base on this please let me know. I look forward to working with you and the Council.
Natalie

****************************************************************************************
MOU Draft 3
Dollar, Natalie
This message was sent with High importance.
Sent: Monday, November 08, 2010 11:05 AM
To: Trempy, Janine
Attachments: General Science MOU Draft 3.docx (33 KB)

Janine,

Attached is draft 3 of the MOU with Mary Ann's careful editing, Marla Hacker and Becky Johnson's edits, and mine.

At this point we need you to vet it with Sherm and then we can generate signatures and take it to the Council before the end of November as we would benefit greatly at Cascades if we could allow registration for the GS degrees starting winter term. Otherwise, we stand to lose students who can't enroll for their major until spring term or later.

I will be in Corvallis Wed. late afternoon for the Leadership Academy Th and Friday. I am more than happy to slip out of the Academy at a point where you and I can talk, if you think it's necessary. Otherwise, perhaps you can send your comments and I can edit it ASAP.

I know you're slammed with accreditation and classes, among many other tasks! I apologize for my persistence... just trying to keep the energy going on this MOU and see it through before more falls on all of our plates. Thanks Janine and I look forward to hearing from you.

Natalie
Actually they articulate as something called LD1 and LD2 respectively. What that means is if the student takes the entire BI 101, 102, 103 sequence at COCC, it will count for 101, 102, 103 here. And, if they take the entire BI 211, 212, 213 sequence at COCC it will count for the same sequence here. But, they can't mix and match because the topics don't match up with ours. Here is how it looks in the tables:

<table>
<thead>
<tr>
<th>COCC</th>
<th>BI 101 GENERAL BIOLOGY I</th>
<th>BI 102 GENERAL BIOLOGY II</th>
<th>BI 103 GENERAL BIOLOGY III</th>
<th>BI 211 PRINCIPLES OF BIOLOGY I</th>
<th>BI 212 BIOLOGY OF PLANTS II</th>
<th>BI 213 BIOLOGY OF ANIMALS III</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSU</td>
<td>BI LD1 *GENERAL BIOLOGY I</td>
<td>BI LD1 *GENERAL BIOLOGY II</td>
<td>BI LD1 *GENERAL BIOLOGY III</td>
<td>BI LD2 *PRINCIPLES OF BIOLOGY I</td>
<td>BI LD2 *BIOLOGY OF PLANTS II</td>
<td>BI LD2 *BIOLOGY OF ANIMALS III</td>
</tr>
</tbody>
</table>

You can see this at [http://oregonstate.edu/admissions/transfer/scr1160_003188.htm](http://oregonstate.edu/admissions/transfer/scr1160_003188.htm)

I will be around next Thursday - but not Friday. I don't know what Janine's schedule is. She is very tied up with accreditation and so is pulling back on all kinds of things.

Have a great weekend!

Mary Ann

Mary Ann Matzke
Head Advisor, College of Science
128 Kidder Hall
Oregon State University
Corvallis, OR 97331-4608
541-737-4811
541-737-1009 (fax)
maryann.matzke@oregonstate.edu

-----Original Message-----
From: Dollar, Natalie
Sent: Friday, November 05, 2010 2:43 PM
To: Matzke, Mary Ann
Subject: another question

Mary Ann,

Just wanted to check and make sure that:

1. BI 101, 102 & 103 from COCC articulate as BI 102 & 103 at OSU

2. BI 211, 212 & 213 from COCC articulate as BI 202 & 203 at OSU

I think they do (all three COCC for two of OSU's) but I wanted to double-check.

I'll be in Corvallis next Th/Fri for a leadership workshop but can get away to talk with you and Janine. I haven't yet heard from Janine on her revisions/comments and whether or not she wants to meet.
Thanks Mary Ann and have a nice weekend when it arrives.

Natalie

From: Matzke, Mary Ann
Sent: Wednesday, November 03, 2010 4:54 PM
To: Dollar, Natalie
Subject: RE: draft

Yes, to both questions!

Mary Ann

Mary Ann Matzke
Head Advisor, College of Science
128 Kidder Hall
Oregon State University
Corvallis, OR 97331-4608
541-737-4811
541-737-1009 (fax)
maryann.matzke@oregonstate.edu

-----Original Message-----
From: Dollar, Natalie
Sent: Wednesday, November 03, 2010 4:27 PM
To: Matzke, Mary Ann
Subject: RE: draft

Mary Ann,

I've had a chance to incorporate your edits and they are very helpful in clarifying our MOU. I have two questions:

1. Can we list OSU-C along with E-Campus for the WIC course in each option as we would like to teach the WIC course face-to-face? Of course would gain departmental approval for the adjunct to teach at Cascades.

2. When you note on the electives in Pre-Med that 45 upper division science credits are required that is total within the major (major requirements and major electives) right or am I reading it incorrectly.

Thanks again Mary Ann!
Natalie

From: Matzke, Mary Ann
Sent: Wednesday, November 03, 2010 2:38 PM
To: Dollar, Natalie; Trempy, Janine
Subject: RE: draft

Natalie and Janine,

Here are my revisions - quite a few, I'm afraid! I'll leave it to Janine to edit the faculty part.

Mary Ann

Mary Ann Matzke
Mary Ann and Janine,

I just got out of a meeting over here and now have the information I need to complete the revision of the MOU. Once I hear back from you two on the pages I sent over Friday with questions for you, I will add those comments/revisions and we'll be ready to circulate again---for signatures if there are no more edits at that time.

Janine, I won't be over next Wednesday until later in the day so I won't be able to meet. I will have some time probably Friday morning though...what does your schedule look like if we need to meet, which we may not?

Thanks!
Natalie

Mary Ann and Janine,

I am waiting on some clarification and language from Marla and Becky on my end to complete the edits and revisions per our recent discussion. I do have some of the MOU that you can help me with and I should have the entire draft to you early next week once I get the information on this end.

Janine, Marla said that for the Energy Engineering Management degree (that was approved by OUS yesterday!), their faculty curriculum committee wrote a supportive attachment for the MOU. Is there a similar committee, or some other committee or group of faculty that we can gain documented support for in the MOU as Curriculum Council puts much weight on it's inclusion.

Thank you again for your assistance and have a nice weekend. Go Beavs!!!!

Natalie

************************************************************************************
FW: draft
Dollar, Natalie
Sent: Tuesday, November 02, 2010 1:52 PM
To: Matzke, Mary Ann; Trempy, Janine
Attachments: Draft for Review 10.29.10.docx (21 KB)[Open as Web Page]
Mary Ann and Janine,

I just got out of a meeting over here and now have the information I need to complete the revision of the MOU. Once I hear back from you two on the pages I sent over Friday with questions for you, I will add those comments/revisions and we'll be ready to circulate again---for signatures if there are no more edits at that time.

Janine, I won't be over next Wednesday until later in the day so I won't be able to meet. I will have some time probably Friday morning though...what does your schedule look like if we need to meet, which we may not?

Thanks!
Natalie

From: Dollar, Natalie
Sent: Friday, October 29, 2010 4:14 PM
To: Matzke, Mary Ann; Trempy, Janine
Subject: draft

Mary Ann and Janine,

I am waiting on some clarification and language from Marla and Becky on my end to complete the edits and revisions per our recent discussion. I do have some of the MOU that you can help me with and I should have the entire draft to you early next week once I get the information on this end.

Janine, Marla said that for the Energy Engineering Management degree (that was approved by OUS yesterday!), their faculty curriculum committee wrote a supportive attachment for the MOU. Is there a similar committee, or some other committee or group of faculty that we can gain documented support for in the MOU as Curriculum Council puts much weight on it's inclusion.

Thank you again for your assistance and have a nice weekend. Go Beavs!!!!

Natalie

Draft MOU
Dollar, Natalie
Sent: Thursday, October 21, 2010 4:07 PM
To: Trempy, Janine; Matzke, Mary Ann
Attachments: General Science MOU Draft.docx (33 KB)

Mary Ann and Janine,

Here's where I am at this time on the draft MOU. I've included Mary Ann's work on the curriculum with a couple of questions based on the sample pdfs on your web page and talking with faculty here. I've noted these in red. Let me know when you're available next week.

Natalie

RE: meeting request
Dollar, Natalie
Sent: Monday, October 18, 2010 10:49 AM
To: Matzke, Mary Ann
Perfect. I've put it on my calendar and will call as well as send the draft I've been working on over in advance for you two to review prior to our Friday conversation.

Thank you Mary Ann.
Natalie

From: Matzke, Mary Ann
Natalie,

We can do 11 am on Friday. Just call my office (541-737-3880) and we will put you on speaker phone. If this is OK, just let me know.

Mary Ann

Mary Ann Matzke
Head Advisor, College of Science
128 Kidder Hall
Oregon State University
Corvallis, OR 97331-4608
541-737-4811
541-737-1009 (fax)
maryann.matzke@oregonstate.edu

-----Original Message-----
From: Dollar, Natalie
Sent: Monday, October 18, 2010 9:18 AM
To: Trempy, Janine; Matzke, Mary Ann
Subject: meeting request

Janine and Mary Ann,

Is there a chance we can schedule a SKYPE or conference call meeting late in the week to discuss the MOU? I was thinking that I could get it to you via email and then we could meet to discuss where we are in the process.

Would this work for you two?

I'm free Thursday after my class ends at 10:30am as of now and Friday is pretty flexible as well.

Natalie

**************************************************************************

Dollar, Natalie

  Re: Friday, Sept. 24
  Janine Trempy [trempyj@science.oregonstate.edu]
  You replied on 9/21/2010 11:42 AM.
  Sent: Tuesday, September 21, 2010 10:57 AM
  To: Dollar, Natalie
  Cc: Morin, Andrew
  To: Mary Ann Matzke, Mary Ann
  
  yes, lets meet at 4pm so Mary Ann can join us.

  see you this Friday at 4pm in Kidder 128.

  On 9/21/10 9:14 AM, Dollar, Natalie wrote:
   > 4 pm works for me? Janine?
   >
Thanks Mary Ann.

Natalie

From: Matzke, Mary Ann
Sent: Tuesday, September 21, 2010 9:09 AM
To: Trempy, Janine - Email Forward; Dollar, Natalie
Subject: RE: Friday, Sept. 24

Janine and Natalie,

I have a Degree Works meeting starting at 3 pm. If you are still in Kidder 128 at 4 pm I might be able to meet up with you.

Mary Ann

Mary Ann Matzke
Head Advisor, College of Science
128 Kidder Hall
Oregon State University
Corvallis, OR 97331-4608
541-737-4811
541-737-1009 (fax)
maryann.matzke@oregonstate.edu

-----Original Message-----
From: trempyj@science.oregonstate.edu [mailto:trempyj@science.oregonstate.edu]
Sent: Monday, September 20, 2010 6:03 PM
To: Dollar, Natalie
Cc: Matzke, Mary Ann
Subject: RE: Friday, Sept. 24

Hi Natalie,
let's meet at 3:30pm in Kidder 128. I cc'd Mary Ann Matzke on this email in the event she might be able to join us. Mary Ann is the College of Science's Head Advisor and she is the most familiar with the requirements for the General Sciences degree program.

see you this Friday.

Janine

Quoting "Dollar, Natalie"<ndollar@osucascades.edu>:

>> yes
>>
>> From: trempyj@science.oregonstate.edu [trempyj@science.oregonstate.edu]
>> Sent: Monday, September 20, 2010 3:02 PM
>> To: Dollar, Natalie
>> Subject: Re: Friday, Sept. 24
>>
>> Hi Natalie,
>> would you be available after 3pm this Friday?
>>
>> Janine
>>
>> Quoting "Dollar, Natalie"<ndollar@osucascades.edu>:
Janine,

I'll be heading to Corvallis Friday and wondering if you would be available to follow up on our last meeting. Afternoon is preferable for me.

Natalie
@eecs.oregonstate.edu
Library Support for the OSU General Science Degree on Cascades Campus

This is an assessment of the library resources available to support the proposed General Science degree at the OSU Cascades Campus. The General Science degree will have the same curriculum as the degree that is offered on OSU main campus.

**Journals**
OSU Cascades patrons have good access to scientific journals via OSU Libraries. These include specialized databases such as BioOne (Biology) and JSTOR PlantScience, as well as subscriptions to online journal packages, such as Springer, Wiley, and Elsevier, which in most cases cover the years 1996 – present. There is full-text access to articles older than 3-12 months from the array of journals covered by the Libraries’ Ebsco and Gale database subscriptions.

We anticipate that the current OSU Libraries science journal collection will sufficiently support the research needs of OSU Cascades undergraduate students. Most of the science journal subscriptions are available in electronic format and we don’t anticipate much impact on the OSU Libraries Access Services, which will provide Scan & Deliver (scanning print articles and sending them via email) and Interlibrary Loan services. However, it is important that the impact be monitored over the next several years as interlibrary loan articles cost OSU Libraries about $25 each. In the future, Cascades will need to purchase additional journal subscriptions if its interlibrary loan expenses equal or surpass the cost of a journal subscription.

**Monographs**
The sciences are journal driven disciplines and we don’t anticipate that the library will need to add many monographs to support the Cascades General Science degree. It is probable that the costs of books or videos that science faculty may occasionally request can be absorbed by the existing budget. Cascades already subscribes to the electronic version of the CRC Handbook of Chemistry & Physics, an essential work for the EEM degree and the General Science degree. In addition, there are several electronic encyclopedias and handbooks that support math and science that are available to through the library.

OSU is well served by the Libraries’ investment in the Orbis/Cascades Alliance, whose combined collection is substantial. Students and faculty can order from the collections of all the libraries in the Orbis Cascade Alliance through the Summit catalog. University of Oregon, Portland State University, University of Washington and Washington State University are some of the larger research libraries represented in the Summit catalog. Books requested through Summit are delivered to OSU Libraries within three to five working days.

**Databases**
OSU Libraries has good access to resources via its subscription databases. Another library search function that is useful for General Science majors is 1Search because it allows searching across multiple databases, books and the documents in ScholarsArchive. Many of the subscription databases that are relevant to the General Science degree are listed below:

1. Agricola (1970 – present)
2. Aquatic Sciences and Fisheries Abstracts (1978 - present)
3. BioOne (Varies)
4. CAB Abstracts (1973 – present)
5. Chemical Abstracts (SciFinder Scholar, 1903 – present)
7. E. V. Komarek Fire Ecology Database (1987 – present)
8. EDTEWEB (1974 – present)
9. Energy Citations Database (1948 - Present)
10. Environmental Sciences and Pollution Management (ESPM, 1967 – present)
11. ERAM (Electronic Archive for Mathematics, 1868 – 1942)
12. Fish, Fisheries & Aquatic Biodiversity Worldwide (1971 – present)
13. Forest Science (1939 – present)
14. Forest Science (1939 – present)
15. GeoBase (1980 – present)
16. GeoRef (1785 – present)
17. Health Source Nursing
18. JSTOR Plant Science (1816 – present)
20. Medline (1950 – present)
22. NTIS (1964 – present)
23. Science Accelerator (1943 – present)
24. Science Citation Index (Web of Science)
25. SPORT Discus (1800 – present)
26. TOXLINE (1994 – present)

Library Staff and Expertise
Librarian support for this program include OSU Cascades Librarians Kate Gronemyer and Maureen Kelly, as well as OSU Subject Librarians: Bonnie Avery (Forestry & Natural Resources); Alison Bobal (Medicine); Uta Hussong-Christian (Math & Physics); May Chau (Agriculture, Soil Science, Botany); Laurel Kristick (Chemistry & Zoology); (Hannah Rempel (Biology); Janet Webster (Fisheries); and Andrea Wirth (Geosciences & Environmental Sciences).

Summary
OSU Libraries collections are sufficient to support the proposed General Science undergraduate degree at Cascades campus. It is not expected that this new program will have much impact on OSU Libraries’ Access Service, but this should be monitored over the next several years to assess whether new resources need to be purchased by the Cascades Campus.

Respectfully submitted,

Maureen Kelly

11/19/2010
To: Oregon State University Curriculum Council

From: Patrick Ball & Matthew Orr, Biology Instructors, University of Oregon, Central Oregon Programs

Re: Proposal for General Science major at OSU-Cascades

Date: 11/17/10

Dear Curriculum Council faculty,

We have been consulted by Natalie Dollar on the development of the memo of understanding regarding the creation of a General Science program at OSU Cascades, and are supportive of the proposal.

Sincerely,

Matthew Orr, PhD

Patrick Ball, PhD