**Map for Program Learning Outcomes (PSLOs) and Institutional Learning Outcomes (ISLOs) for the \_*Astronomy*\_\_\_Program**

**Date 8/31/2012 Completed by D. Devine and M. Khan (Astronomy/Physics Faculty)**

Instructions: 1. Following the psychology example, fill in the column headers with the abbreviated names and course numbers of the courses in your program. 2. In the left blank rows, write in the **PSLOs** you developed. 3. Place an X in any square that corresponds to each of the **PSLOs** that can be measured by your program’s courses. 4. In the ISLO section, place an X in any square that corresponds to each of the eight **ISLOs** than can be measured, even if only partially, by any of your program’s courses. If your program measures no ISLOs, please write “none” across the ISLO section. 5. Complete the top section of the form, keep a copy, and return your completed form to Gayle Berggren. Thanks. [gberggren@coastline.edu](mailto:gberggren@coastline.edu)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PROGRAM COURSES IN THE COLUMN HEADERS** | **ASTR C100** | **ASTR C100L** | **ASTR C101** | **ASTR C102** | **ASTR C103** | **ASTR C104** |  |  |  |
| **PROGRAM SLOs** | **Explain three fundamental processes present in astronomy.** | X | X | X | X | X | X |  |  |  |
| **Given the appropriate laboratory setting, design and apply the process of science to address a hypothesis.** |  | X |  |  |  | X |  |  |  |
| **Find, select and evaluate scientific information present in primary research literature, mass media, online or other sources.** | X | X | X | X | X | X |  |  |  |
| **Communicate astronomy concepts effectively in written and/or oral forms.** | X | X | X | X | X | X |  |  |  |
| **INSTITUTIONAL SLOs** | **1. Demonstrate understanding and appreciation for the visual and performing arts.** |  |  |  |  |  |  |  |  |  |
| **2. Demonstrate ethical civic, environmental, and social responsibility.** |  |  |  |  |  |  |  |  |  |
| **3. Demonstrate ability to apply critical thinking and analysis.** | X | X | X | X | X | X |  |  |  |
| **4. Demonstrate innovative thinking, and adaptive, creative problem solving skills.** | X | X | X | X | X | X |  |  |  |
| **5. Demonstrate understanding and respect for cultural and global diversity.** |  |  |  |  |  |  |  |  |  |
| **6. Demonstrate information competency.** |  |  |  |  |  |  |  |  |  |
| **7. Use effective communication and interpersonal skills.** |  |  |  |  |  |  |  |  |  |
| **8. Use scientific and quantitative reasoning.** | X | X | X | X | X | X |  |  |  |