

DATA Reflections for BIOLOGY 2011-2012

STANDARD 1 – CELLS		
Assessment	Description / Analysis	Action?
5F BI350	Students are performing in an acceptable range according to this assessment.	No changes at this time.
MFT Sub-score 1	MFT subscores could be higher, but are within an acceptable range.	Department will consider adding an additional requirement of an elective course to help students reinforce concepts related to content knowledge. Depending on the elective course that is chosen (i.e. Immunology or Microbiology) this may help improve MFT scores.
STANDARD 2 – GENETICS		
5C BI	Students are performing in an acceptable range according to this assessment.	No changes at this time.
MFT Sub-score 2	MFT subscores could be improved but are within an acceptable range	Department will consider adding an additional requirement of an elective course to help students reinforce concepts related to content knowledge. Depending on the elective course that is chosen (i.e. Immunology or Microbiology) this may help improve MFT scores.
STANDARD 3 – BIOLOGICAL EVOLUTION		
5B BI170 disaggregated	Students are performing well on this assessment.	None
STANDARD 4 – ECOLOGICAL INTERACTIONS		
MFT Sub-score 4	Students are performing in an acceptable range according to this assessment.	None
STANDARD 5 – ANIMAL BEHAVIOR		
5B BI 170 Hydra lab	Students are performing well on this assessment.	None
5B BI 170 Planaria lab	Students are performing well on this assessment.	None
STANDARD 6 - ORGANISMS		
1a Praxis Sub-score IV	Students are performing in an acceptable range according to this assessment.	None
5E BI Botany	Students are performing in an acceptable range according to this assessment.	None
MFT Sub-score 3	Students are performing in an acceptable range according to this assessment.	None

STANDARD 7 – HUMAN SYSTEMS AND SEXUALITY		
5D BI Human Physiology	Students are performing in an acceptable range according to this assessment, but perhaps more emphasis could be placed on teaching human sexuality within the context of human physiology.	Include more information related to human sexuality as part of the Human Physiology course.
STANDARD 8 – POPULATION GROWTH		
1A Praxis subscore V - Ecology	Students are performing in an acceptable range according to this assessment.	None
5A BI 125 Environ. Sc.	Students are performing in an acceptable range according to this assessment.	None
STANDARD 9 – SCIENTIFIC INQUIRY		
6 BI499 Research	Students demonstrated a strong ability to design experiments and conduct scientific research using the scientific method	None
STANDARD 10 – TECHNOLOGY		
1a Praxis Sub-score VI	Students are performing in an acceptable range according to this assessment.	None
5 ED406 Technology plan	Students are performing in an acceptable range according to this assessment.	None
STANDARD 11 – HUMAN ENDEAVOR, NATURE OF SCIENCE, HISTORICAL PERSPECTIVE		
5A BI 125 Environ. Sc.	This has been an area that students have done well on in the past but will need to continue to be emphasized.	Make sure to focus on this standard when teaching Environmental Science.
STANDARD 12 – UNIFYING DOMAINS		
8 End of Program Exam	Student performance in this area was mixed, some students did very well and others did poorly. Students receive adequate instruction in other science domains (chemistry, physics, math), but need to focus on how these areas are unified.	Continue to place more emphasis on the unity of science domains in more required courses including Senior Seminar II.
STANDARD 13 – TEACH SCIENCE EFFECTIVELY		
3 CTE Rubric overall	Students have excelled in this area according to data from this assessment.	None
STANDARD 14 – INTEGRATES SCIENCE WITH OTHER DISCIPLINES		
3 CTE Rubric Goal 1	Students have done a good job of integrating science with other disciplines.	No changes recommended at this time.
STANDARD 15 – RELATE TO STUDENT INTEREST AND DAILY LIFE		
2 KPTP Task 2 Unit Plan	Students performed very well in this area according to the assessment and comments from clinical teachers.	No changes recommended.
STANDARD 16 – VARIETY OF TEACHING METHODS		
2 KPTP Task 3	Students did well in exhibiting a variety of teaching methods according to this assessment.	None

Teaching		
STANDARD 17 – LEARNING ENVIRONMENT AND LAB SAFETY		
5B ED 406 Safety Plan	This was one of the highest ranking areas and students did well on the assessment and are also taught lab safety procedures in all lab courses in the curriculum.	None
STANDARD 18 – ONGOING PROFESSIONAL PRACTICE		
2 KPTP Task 4 Reflection	Students are performing in an acceptable range according to this assessment.	None

Documentation of Department Discussions

Strengths of the Program
<p>The program has done a good job of providing candidates with the necessary content knowledge to be successful teachers. The courses required in the program are of sufficient breadth and depth to teach candidates the essential elements of the biological sciences. We feel that the program is doing a good job of providing the necessary information required for future teachers.</p>
Areas to Improve
<p>The department will work on improving data monitoring and collecting as students complete courses in the program. This will help facilitate writing of annual reports and to help more quickly assess when students may be struggling with certain standards or areas. Courses will also work to emphasize science from a historical perspective, science as a human endeavor (Standard 11), and how science domains are unified (Standard 12).</p>
Changes / Updates / Topics for Discussion (syllabi, college catalog, curriculum, specific courses, specific assessments, etc.)
<p>The syllabus for Human Physiology will be updated to better reflect that the course includes information related to health issues and human sexuality. Rubrics for Senior Seminar will be updated to provide data for standards related to this assessment. CTE rubric was added as a means of assessing standards and will be used for candidates completing clinical teaching in the future.</p>