Curriculum Details

Proposed By

Proposed by: krupp

Course Record ID

779

Entry Type

Modify (draft)

Date Created

February 22, 2013

Notes and Special Changes

Stakeholders Consulted

WCC Natural Science Department

1. Justification

Based upon UHM syllabi available online, course content has changed in terms of what is taught for the BIOL 171 & 172 sequence. Some of what used to be taught in BIOL 171 (detailed biology of protists and fungi) has been pushed into BIOL 172. This shift is apparently a result of expanded content in cell and molecular biology in BIOL 171. In making this change, I also revised the course SLOs to be consistent with these changes. Also revised course title to match that of UHM. I will be making a corresponding change to the course description for BIOL 172 as a separate request.

2. Course Alpha

BIOL

3. Course Number

171
4. Course Title (long)
Introduction to Biology I

5. Course Title Short
Introduction to Biology I

6. Course Credits
3

7. Course Credit Upper Range
0

Repeatable
Will default to 98 (this is how often someone can sign up for the course (not how
many times they can apply it to a degree)

8. Course Description
First semester of introductory biology for all life science majors. Topics include:
Overview of the science of biology; Cell structure, chemistry, growth, and
reproduction; Classical, chromosomal and molecular genetics; Evolution, phylogeny
and systematics; and Biology and diversity of viruses and bacteria.

9. Course Pre-Requisites

10. Course Co-Requisites

11. Course Recommended Preparation
High school chemistry or college chemistry and registration in BIOL 171L.

12. Contact Hours (lecture, lab, lecture/lab)
3 hours lecture
13. Department
Natural Sciences

14. Cross-Listing

15. Course Content

16. Course Competencies

17. Assessments, Tasks, and Grading
Students complete weekly (approx.) quizzes, two midterm exams, and one comprehensive final exam.

Grading Options
Will be set to Banner default

18. Auxiliary Materials and Content

19. Additional Activities outside of class and class time
20. Special Costs connected to the course

21. What are the Student Learning Outcomes?

*Develop and evaluate a scientific hypothesis. *Describe cell structure and function. *Describe how genetic characteristics are passed from generation to generation and how they are manifested into the characteristics of the whole organism. *Explain how the process of biological evolution influenced the history of life on our planet. *Classify living things into a hierarchical system of groups based upon morphology, genetics, and phylogeny. *Describe the characteristics, systematics, and biology of viruses and bacteria.

22. Connection between the Course SLOs and the College's General Education Outcomes

GenEd: Develop the ability to perceive how people interact with their cultural and natural environments, through their own worldview and through the worldviews of others, in order to analyze how individuals and groups function in local and global contexts.

GenEd: Make judgments, solve problems, and reach decisions using analytical, critical, and creative thinking skills.

23. How does the proposal connect to the college's strategic plan?

24. Describe the staff that will be needed

No additional resources needed as this class is normally included in the instructor's regular workload.

25. Describe the facilities that will be needed, including special rooms

26. Describe any other resources that will be needed

27. How will the staff, facilities, and other resources for the course be secured?
28. Certificates
ASCBioRes CertBioTech ASCPlant CertMOP

29. Connection to the AA degree
AADB

30. Maximum Credits Towards an AA Degree
3

31. List any similar classes taught at outside of the UH system

32. List any similar classes taught at campuses in the UH System.
*UHM BIOL 171 Introduction to Biology I *UHH BIOL 175 Introductory Biology I
*UHWO BIOL 171 Introduction to Biology I *HawCC BIOL 171 Introduction to Biology I
*HonCC BIOL 171 Introduction to Biology I *KapCC BIOL 171 General Biology I
*LeeCC BIOL 171 Introduction to Biology I *UH Maui BIOL 171 Introductory Biology I

33. How, if at all, is the course intended to count in lieu of a course taught at a four-year campus.
This class is articulated with UHM’s BIOL 171, UHH’s BIOL 175, UHWO’s BIOL 171, and UH Maui’s BIOL 171.

34. How, if at all, is the course similar to upper-division courses in the UH System.

35. How does the course articulate with four-year programs (Gen Ed)?
Already accepted as DB.

36. List any articulations between this course and any four-year program.
Should already be articulated.

End of Proposal