

**UCC/UGC/ECCC**

Proposal for Course Change

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| **FAST TRACK (Select if this will** **be a fast track item. Refer to**  [***Fast Track Policy***](http://www4.nau.edu/avpaa/UCCPolicy/Agenda_FastTrack_Consent.docx) **for eligibility)** |

# *If the changes included in this proposal are significant, attach copies of original and proposed syllabi in* [*approved university format*](http://www4.nau.edu/avpaa/UCCForms/syllabus.doc)*.*

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| 1. Course subject and number: | **BIO 482C/482CH** | 2. Units: | **3** |

[**See upper and lower division undergraduate course definitions**](http://www4.nau.edu/avpaa/UCCPolicy/Uplow.doc).

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| 3. College: | CEFNS | 4. Academic Unit: | Biological Sciences |

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| 5. Current Student Learning Outcomes of the course.  The goal of this course is to become familiar with the structure and organization of the human genome, the influence of genomic variation on human phenotypes, and the organization of genomic variation among human populations. As part of this process we will draw extensively from the primary scientific literature. As such, a secondary goal is that students will gain experience and practice reading scientific reports, and understanding the tools used to collect and analyze genome-scale data. Finally, students are expected to develop the ability to discuss and synthesize scientific studies in both oral and written formats. | Show the proposed changes in this column (if applicable). Bold the proposed changes in this column to differentiate from what is not changing, and Bold with strikethrough what is being deleted. *(*[*Resources & Examples for Developing Course Learning Outcomes*](http://www4.nau.edu/avpaa/Assessment/CourseLearningOutcomesPDF_090712.pdf)*)*  **UNCHANGED** |

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| 6. Current **title,** **description** and **units**. Cut and paste, in its entirety,from the current on-line academic catalog\* [**http://catalog.nau.edu/Catalog/**](http://catalog.nau.edu/Catalog/).   |  | | --- | | **BIO 482C HUMAN GENOMICS (3)** | | Description: This course will convey basic ideas in human genomics, including how genetic information determines phenotype, theories of genetic diagnosis, and the role of genes in cancer and other diseases. Letter grade only.  Units: 3  Requirement Designation: Senior Capstone  Prerequisite: BIO 344 and BIO 350 |  |  | | --- | | **BIO 482CH HUMAN GENOMICS-HONORS (3)** | | Description: This course will convey basic ideas in human genomics, including how genetic information determines phenotype, theories of genetic diagnosis, and the role of genes in cancer and other diseases. Letter grade only.  Units: 3  Requirement Designation: Senior Capstone  Prerequisite: BIO 344 and BIO 350 and Honors Student Group | | Show the proposed changes in this column **Bold** the proposed changes in this column to differentiate from what is not changing, and **~~Bold with strikethrough~~**what is being deleted.   |  | | --- | | **BIO 482C HUMAN GENOMICS (3)** | | Description: This course will convey basic ideas in human genomics, including how genetic information determines phenotype, theories of genetic diagnosis, and the role of genes in cancer and other diseases. Letter grade only.  Units: 3  Requirement Designation: Senior Capstone  Prerequisite: **BIO 240 and (**BIO 344 **~~and~~** **or** BIO 350**)** | | **BIO 482CH HUMAN GENOMICS-HONORS (3)** | | Description: This course will convey basic ideas in human genomics, including how genetic information determines phenotype, theories of genetic diagnosis, and the role of genes in cancer and other diseases. Letter grade only.  Units: 3  Requirement Designation: Senior Capstone  Prerequisite: **BIO 240, (**BIO 344 **~~and~~** **or** BIO 350**)** and Honors Student Group | |

\*if there has been a previously approved UCC/UGC/ECCC change since the last catalog year, please copy the approved text from the proposal form into this field.

7. Justification for course change.

**This change reflects updating of our curriculum in the field of genetics and will better ensure students have foundational material for this course. Moreover, it actually makes it easier for students to enroll in the course by now requiring one 200-level course and one of two 300-level courses, instead of two specific 300-level courses.**

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| 8. Effective **BEGINNING** of what term and year? | **Fall 2015** |
| [**See effective dates calendar**](http://www4.nau.edu/avpaa/timelines/1314Effective.xls). |  |

**IN THE FOLLOWING SECTION, COMPLETE ONLY WHAT IS CHANGING**

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| **CURRENT** | **PROPOSED** |
| Current course subject and number: | Proposed course subject and number: |
| Current number of units: | Proposed number of units: |
| Current short course title: | Proposed short course title (max 30 characters): |
| Current long course title: | Proposed long course title (max 100 characters): |
| Current grading option:  letter grade  pass/fail  or both | Proposed grading option:  letter grade  pass/fail  or both |
| Current repeat for additional units: | Proposed repeat for additional units: |
| Current max number of units: | Proposed max number of units: |
| Current prerequisite:  BIO 344 and BIO 350  BIO 344 and BIO 350 and Honors Student Group | Proposed prerequisite (include rationale in the justification):  **BIO 240 and (BIO 344 or BIO 350)**  **BIO 240, (BIO 344 or BIO 350) and Honors Student Group** |
| Current co-requisite: | Proposed co-requisite (include rationale in the justification): |
| Current co-convene with: | Proposed co-convene with: |
| Current cross list with: | Proposed cross list with: |

9. Is this course in any plan (major, minor, or certificate) or sub plan (emphasis)? Yes  No

If yes, describe the impact. If applicable, include evidence of notification to and/or response

from each impacted academic unit.

**Biology BS (elective), Biomedical Science BS (elective), Microbiology BS (elective)**

10. Is there a related plan or sub plan change proposal being submitted? Yes  No

If no, explain.

**These prerequisite changes will not require any related plan changes.**

11. Does this course include combined lecture and lab components?                  Yes  No

If yes, include the units specific to each component in the course description above.

1 unit of lecture and 1 unit of laboratory

**Answer 12-15 for UCC/ECCC only:**

12. Is this course an approved Liberal Studies or Diversity course?                    Yes  No         If yes, select all that apply.   Liberal Studies    Diversity    Both

13. Do you want to remove the Liberal Studies or Diversity designation?            Yes  No

If yes, select all that apply.   Liberal Studies    Diversity     Both

14. Is this course listed in the [**Course Equivalency Guide**](https://aztransmac2.asu.edu/cgi-bin/WebObjects/Admin_CEG.woa/wa/ByInst?inst=NAU)?                               Yes  No

15. Is this course a [**Shared Unique Numbering**](https://aztransmac1.asu.edu/cgi-bin/WebObjects/ATASS.woa/wa/SUNList?S=X) (SUN) course?                            Yes  No

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| **FLAGSTAFF MOUNTAIN CAMPUS** |  |
| **Scott Galland** | **2/26/2014** |
| Reviewed by Curriculum Process Associate | Date |
|  |  |
| **Approvals**: |  |
| Maribeth Watwood | 2-26-14 |
| Department Chair/Unit Head (if appropriate) | Date |
|  |  |
| Chair of college curriculum committee | Date |
|  | 2/27/14 |
| Dean of college | Date |
|  |  |
| **For Committee use only:** |  |
|  |  |
| UCC/UGC Approval | Date |

Approved as submitted: Yes  No

Approved as modified: Yes  No

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| **EXTENDED CAMPUSES** |  |
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| Reviewed by Curriculum Process Associate | Date |
|  |  |
| **Approvals:** |  |
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| Academic Unit Head | Date |
|  | |
| Division Curriculum Committee (Yuma, Yavapai, or Personalized Learning) | Date |
|  | |
| Division Administrator in Extended Campuses (Yuma, Yavapai, or Personalized Learning) | Date |
|  | |
| Faculty Chair of Extended Campuses Curriculum Committee (Yuma, Yavapai, or Personalized Learning) | Date |
|  | |
| Chief Academic Officer; Extended Campuses (or Designee) | Date |
|  |  |

Approved as submitted: Yes  No

Approved as modified: Yes  No