SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS
New Course Request

USD	**Arts & Sciences/Biology**
Institution	**Division/Department**
Elizabeth M. Freeburg	5/6/19
Institutional Approval Signature	**Date**

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
BIOL 314	Human Heredity	3

Course Description

The study of human heredity involves the application of transmission genetics, cytogenetics, molecular genetics, and evolutionary genetics to issues involving our species. A basic knowledge of Mendelian genetics and its extensions, cell structure and nuclear division, DNA structure and function, protein structure and function, and population genetic processes will be assumed. This course will discuss topics such as pedigree analysis and quantitative genetics as well as human cancer genetics and chromosomal aberrations.

Pre-requisites or Co-requisites (add lines as needed)

Prefix & No.	Course Title	Pre-Req/Co-Req?
BIOL 151/153	General Biology I and II	Pre-Req

Registration Restrictions N/A

Section 2. Review of Course

2.1. Was the course first offered as an experimental course?

☐ Yes *(if yes, provide the course information below)* ☒ No

2.2. Will this be a unique or common course?

If the request is for a unique course, verify that you have reviewed the common course catalog via Colleague and the system Course Inventory Report to determine if a comparable common course already exists. List the two closest course matches in the common course catalog and provide a brief narrative explaining why the proposed course differs from those listed. If a search of the common course catalog determines an existing common course exists, complete the Authority to Offer an Existing Course Form.

☒ **Unique Course**

Prefix & No.	Course Title	Credits
BIOL 371/471	Genetics	3
BIOL 416	Evolution of Disease	3

Provide explanation of differences between proposed course and existing system catalog courses below:

A search of the RIS course inventory shows no identical courses in the system. BIOL 371 and 471 Genetics courses cover "Principles governing the nature, transmission and function of hereditary material with application to plants, animals, humans, and microorganisms," and so lack the specific focus of the proposed course on humans. BIOL 416/516 Evolution of Disease applies "Fundamental concepts of genetics and evolution...to understanding the evolution of genetic and infectious disease," and so considers only the genetics of disease, rather than non-disease aspects of heredity, as well as including non-heritable infectious diseases.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

☒ **No**. Schedule Management, explain below: The course will be taught by existing faculty as part of their normal workload.

3.2. Existing program(s) in which course will be offered: Biology

3.3. Proposed instructional method by university: R - Lecture

3.4. Proposed delivery method by university: U01 -Face to face

3.5. Term change will be effective (enter catalog year): 2019

3.6. Can students repeat the course for additional credit?

☐ Yes, total credit limit: _____ ☒ No

3.7. Will grade for this course be limited to S/U (pass/fail)?

☐ Yes ☒ No

3.8. Will section enrollment be capped?

☒ Yes, max per section: 24 ☐ No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report?

☐ Yes ☒ No

3.10. Is this prefix approved for your university?

☒ Yes ☐ No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

4.1. University Department Code: UBIO

4.2. Proposed CIP Code: 26.0806

Is this a new CIP code for the university? ☐ Yes ☐ No