

DISCLAIMER: This is an example syllabus that is subject to change at faculty discretion.



Course Syllabus

Course Information

BIO 265

Genetics for Health Professions

3 credit hours

[Academic Calendar](#)

Instructor Information

Instructor Name

Email Address:

Phone:

Office Hours:

If you need to contact me directly, I prefer that you email me. Please allow 24 hours for me to respond to emails Monday through Friday and 48 hours on the weekend.

Communicating With the Instructor

The Question Center Discussion The Question Center Discussion is an excellent place to ask questions and get answers from peers and me. You are encouraged to post your questions here before contacting me unless it is a time-sensitive matter. If you have questions of a personal nature, such as relating to a personal emergency, questioning a grade on an assignment, or something else that needs to be communicated privately, you are welcome to contact me directly via email or phone.

Technology Help

If you have a question about the technology used in the course, please contact the Doane University Service Center for assistance; their contact information is listed later in the syllabus. If third-party tools are utilized in the course, please contact them directly.

Course Catalog Description

This course is designed to provide students with a basic understanding of the principles of prokaryotic and eukaryotic genetics. Emphasis is placed on the molecular basis of heredity,

chromosome structure, patterns of Mendelian and non-Mendelian inheritance, and the genetics of human disorders. In this course, students will demonstrate an understanding of the patterns of inheritance by analyzing how DNA, RNA, and proteins contribute to the genotype and phenotype of an organism. Students will apply this knowledge, along with their understanding of classic inheritance patterns, to a range of human genetic disorders.

Course Prerequisites

Knowledge of Biology I & II or their equivalent is recommended to be successful in this course.

Course Textbook and Materials

In addition to the textbook listed below, you must have access to the internet. This textbook will be purchased within the course for a minimal fee.

Clark, Mary Ann et al. Biology 2e. OpenStax, 2018. ISBN-13: 978-1-947172-52-4

Learning Objectives

At the completion of this course students will be able to:

1. Explain the structure of genetic information and how it is translated into the functional molecules of living organisms.
2. Identify, describe and distinguish between common patterns of inheritance.
3. Apply probability concepts to solve genetics problems.
4. Apply genetic principles to produce family pedigrees that illustrate inheritance patterns.
5. Explain the basis of mutations and their potential consequences.
6. Describe the techniques used in genetic screening and testing.
7. Evaluate current ethical, legal and social issues associated with human genetics.

Proctored Exams

In addition to the identity verification practice quiz, two of the weekly quizzes (Quiz 2 & Quiz 5) plus the Final Exam will be proctored through Examity. This will allow us to maintain a high level of academic integrity. Please plan accordingly and utilize the authorization link at the top of the Examity module on Canvas to take the assessment. Pre-scheduling your quiz is NOT required.

Course Requirements

Online Course

This is an online course and there will not be any face-to-face class sessions. All assignments and course interactions will utilize internet technologies. You must have a reliable internet connection throughout the duration of the course.

This course uses Canvas for the facilitation of communications between faculty and students, submission of assignments, and posting of grades. The Canvas Course Site can be accessed at <https://doane.instructure.com/>

Attendance in an online course means logging into the Canvas on a regular basis and participating in all of the activities that are posted in the course. In addition, check your Doane University e-mail account regularly, as your instructor may send important information via email.

Examity

Examity is Doane University's proctoring system. It may be used in your course to proctor quizzes and exams. You will be required to complete a quiz through Examity at the beginning of the course to verify your identity. Once you complete this quiz, you may begin your course.

Attendance/Participation

Doane University expects active participation by a student in a course, whether the course is on-ground or online. A student is expected to be prompt and regularly attend on-ground classes in their entirety. Regular engagement is expected for online courses.

You should plan to work on this course everyday. This is a condensed, fast-paced, course. Expect to spend approximately 20 hours a week preparing for and actively participating in this 8-week course.

Class Preparation

Preparation for class means reading the assigned readings and reviewing all information required for that week.

Computer Requirements

For the successful use of Canvas please refer to Doane University's [minimum computer requirements](#). This also includes:

- Reliable computer and internet connection
- A web browser (Chrome or Mozilla Firefox)
- Adobe Acrobat Reader (free)
- Word processing software—Microsoft Word or Google Docs
- Webcam and mic

Campus Network or Canvas Outage

When access to Canvas is not available for an extended period of time (greater than one entire evening - 6pm till 11pm) you can reasonably expect that the due date for assignments will be changed to the next day (assignment still due by midnight).

Drop and Add Dates

If you feel it is necessary to withdraw from the course, please contact your University Advisor or the Open Learning Academy at ola@doane.edu or (402) 467-9008 for full details on the types of withdrawals that are available and their procedures. You can also review

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important refund and withdrawal dates via the [Academic Calendar for OPENING LEARNING ACADEMY](#).

Academic Integrity

Fundamental to our mission, our core values, and our reputation, Doane University adheres to high academic standards. Students of Doane University are expected to conduct themselves in a manner reflecting personal and professional integrity. Disciplinary actions may be taken against students whose academic behavior is not congruent with the expectations of the University. Students are responsible for adhering to the standards detailed in this policy. Not being familiar with these standards does not mean that the students will not be accountable for adherence to them. Additional details on the Academic Integrity policy for violating academic integrity are published in the undergraduate and graduate catalogs.

Course Grading

Submitting Assignments

All assignments, unless otherwise announced by the instructor, must be submitted via Canvas. Each assignment will have a designated place to submit the assignment. All material, assignments, and deadlines are subject to change with prior notice. It is your responsibility to stay in touch with your instructor and review the course site regularly to learn about changes to assignments or due dates. **All assignments and due dates are reflective of Central Standard Time.**

Grading Scale

Assignment of letter grades is based on a percentage of points earned. The letter grade will correspond with the following percentages achieved. All course requirements must be completed before a grade is assigned.

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A+ 97 – 100
A 93 – 96
A- 90 – 92
B+ 87 – 89
B 83 – 86
B- 80 – 82
C+ 77 – 79
C 73 – 76
C- 70 – 72
D+ 67 – 69
D 63 – 66
D- 60 – 62
F 59 and below

Grading Scheme

Student final percentage will be assigned using the following criteria:

Homework-25%
Quizzes-15%
Topic Discussions-25%
Reflection and Feedback-5%
Projects-20%
Final Presentation-5%
Final Exam-5%

TOTAL 100%

Late or Missed Assignments

Unless you have received my approval more than 24 hours before an assignment deadline, late assignments will lose 25% each day they are late.

If circumstances arise that make it impossible to complete an assignment on time, you must communicate with me at least 24 hours before the due date to make arrangements to adjust the due date.

After four days, late assignments that were not discussed with me prior to the deadline will only be accepted for credit under extraordinary circumstances and at my discretion.

Feedback

Please allow up to 3-5 days for feedback on assignments. Please review instructor feedback for assignments and assessments, this will help you reflect on what you have learned while receiving suggestions for improvement.

Technical Support

If you are in need of technical assistance please access the [Self Service Portal](#). You may reach the help desk at 402-826-8411 or by email at help@doane.edu.

Accessibility Statement

In compliance with the Rehabilitation Act of 1973, Section 504, and the Americans with

Disabilities Act of 1990, professional disability specialists and support staff at Doane University facilitate a comprehensive range of academic support services and accommodations for qualified students with disabilities. Doane University staff coordinate student transitions from high schools and community colleges, conduct in-service training for faculty and staff, enable the resolution of accessibility issues, conduct community outreach, and facilitate collaboration among Doane University staff on disability policies, procedures, and accommodations.

Disability Services

[Doane University's Disability Services Office](#) will provide guidance on accommodations and universal access. To request accommodations please complete the [Self-Identification Form](#) and visit the website for additional information.

Title IX Requirements: Mandatory Reporting

At Doane, all university employees, including faculty, are considered Mandatory Reporters. As a Mandatory Reporter, I am required to report incidents of sexual misconduct and relationship violence to the Title IX Coordinator and, thus, cannot guarantee confidentiality. This means that if you tell me about an incident of sexual harassment, sexual assault, domestic violence, dating violence, stalking and/or other forms of prohibited discrimination, I have to share the information with the University's Title IX Coordinator. My report does not mean that you are officially reporting the incident. This process is in place to ensure you have access to and are able to receive the support and resources you need. For additional information, including confidential resources, please visit the [Campus Advocacy, Prevention, and Education \(CAPE\) Project](#).

Instructional Technology Accessibility and Privacy Policies

If your course uses additional technology tools, information on the [Technology Policies & Guidelines](#)

Syllabus Disclaimer

The instructor and Doane University views the course syllabus as an educational contract between the instructor and students. Every effort will be made to avoid changing the course schedule but the possibility exists that unforeseen events will make syllabus changes necessary. The instructor reserves the right to make changes to the syllabus as deemed necessary. Students will be notified in a timely manner of any syllabus changes via email or in the course site Announcements. Please remember to check your Doane University email and the course site Announcements often.

Doane Syllabus Addendum

Each student is responsible for being aware of the policies, resources, and expectations as specified in the Doane Syllabus Addendum located at:
<https://web.doane.edu/offices-services/registrar/syllabus-addendum>

Please review these items before your course begins.