

**HAGERSTOWN COMMUNITY COLLEGE
MASTER SYLLABUS**

COURSE: BIOLOGY 12 Biology of Disease WEB
INSTRUCTOR: Paula Roberts, MSPH

COURSE DESCRIPTION: This is a lecture/discussion course that is delivered over the internet, focusing on viral disease as a model for understanding other mechanisms in biology. Topics include basic virology, epidemiology, immunology, and molecular biology as they relate to viral disease and its spread in populations. Scientific reading and writing assignments are required. Prerequisite: Demonstrated computer/internet competency. 3 credits

This course is offered wholly online with the exception of 3 exams, which must be taken after showing photo ID in the Testing Center on campus (LRC322).

MATERIALS REQUIRED:

Sompayrac, L. (2013) How Pathogenic Viruses Think: Making Sense of Virology 2nd Edition Jones & Bartlett Learning Burlington, MA. ISBN 978-1-4496-4579-3 ISBN 1-4496-4579-8 This book is also available as an e-book

STUDENT LEARNING OUTCOMES:

- a. The student will gain an understanding of biology using viral diseases as a model of cellular function and its relation to the total organism as measured by quizzes, assignments, and exams.
- b. Strengthen student's reading, writing, and information literacy skills by requiring students to read papers from scientific sources and report their findings.
- c. Strengthen student's social intelligence skills by expecting students to take responsibility for their own actions, including turning in all assignments when scheduled and keeping up with a tight schedule.
- d. The student will be exposed to contemporary areas of research about viral disease by reading articles and reporting on their contents.
- e. Students will become aware of and discuss the importance of viral disease from a historical, ethical and moral perspective through reading, on-line discussion boards, and other assignments.

TOTAL HOURS OF WORK EXPECTED:

Class activity	Hours/assignment	Total hours needed to complete all activities
Reading assigned chapter in text book	19 Chapters 2 hours per chapter	38
Reviewing /reading posted Journal Articles	3 Articles 2 hours per article for reading and comprehension	6
Completing online homework	7 homework assignments x 2.0 hour/assignment	14
Logging on to Moodle & Biology of Disease for class announcements/Q&A	15 weeks x 0.5 hr/week	7.5
Research and writing for topical project	1 final project with Power Point and Speaker's notes	15
Completing online discussions and participation in weekly discussions	7 Discussion topics at 2 hours per topic and 6 participation posts per week for 7 weeks at 1 hour per post.	21

Studying for and completing exams	3 exams x 6 hr/exam = 18 hours	18
Total course time		119* <i>*exceeds the required 112.5 hours of expected course work for a 3 credit course</i>

Services for students with disabilities: Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.