

Course Change Request

New Course Proposal

Date Submitted: 12/05/19 3:18 pm

Viewing: **BIOL 432 : Clinical Application Human**

Physiology

Last edit: 12/05/19 3:18 pm

Changes proposed by: dpolayes

In Workflow

1. **BIOL Undergraduate Representative**
2. **SC Curriculum Committee**
3. SC Associate Dean
4. Assoc Provost- Undergraduate
5. Registrar-Courses
6. Banner

Approval Path

1. 12/06/19 12:04 pm
Geraldine Grant (ggrant1): Approved for BIOL Undergraduate Representative

Are you completing this form on someone else's behalf?

No

Effective Term: Fall 2020

Subject Code: BIOL - Biology

Course Number:
432

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Clinical Application Human Physiology

Banner Title: Clinic Applic Human Physiology

Will section titles vary by semester? No

Credits: 4

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 4

Repeatable: May be only taken once for credit, limited to 3 attempts (N3) **Max Allowable Credits:** 12

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

Required**Prerequisite(s) /****Corequisite(s)****(Updates only):**

BIOL124 and 125 or BIOL430 and 431

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?

Registration**Restrictions****(Updates only):****Registrar's Office Use Only - Registration Restrictions:****Field(s) of Study:****Class(es):****Level(s):****Degree(s):****School(s):****Catalog****Description:**

Select organ systems will be discussed relative to their physiology, pathology and pharmacology. Case study presentations will be an integral part of the class.

Justification:

Class has been taught for 2 semesters under a general topics heading. We were testing to see if the students would be interested in this topic. There has been excellent feedback from the students and the class is well attended and appreciated by our students as a relevant topic for biology majors

Does this course cover material which crosses into another department? No

Learning Outcomes:

Students will learn the SOAP Note format for Case study presentation

Subjective – patient symptoms

Objective – patient signs; measurable parameters

Assessment – diagnosis with justification

Plan – clinical interventions with justification

Attach Syllabus

[BIOLOGY 432 Course Information.pdf](#)

Additional Attachments**Staffing:**

This is a team taught class of Dr. Brenda Tondi, Dr. Alexandra Masterson and Dr. Denise Hunnell

Relationship to

Existing Programs:

Will complement our concentration in Biopsychology

Relationship to

Existing Courses:

It takes the information that students would have touched on in A&P and adds the pharmacology and pathology aspects that they don't learn.

**Additional
Comments:**

**Reviewer
Comments**

BIOL 432: Clinical Applications in Human Physiology

INSTRUCTORS:

Dr. Brenda Tondi btondi@gmu.edu
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Office Hours:

Dr. Alexandra Masterson amaster2@gmu.edu
Office: 1207 Exploratory Hall 703-993-4211
Office Hours:

Dr. Denise Hunnell dhunnell@gmu.edu
Office: 1102 Exploratory Hall
Office Hours:

COURSE MATERIALS

Lecture PowerPoints – available on Blackboard
Web-based Resources including, but not limited to:
 American Family Physician
 U.S. Preventive Task Force Guidelines
 New England Journal of Medicine

CORRESPONDENCE:

When communicating with your instructor via email, only use your GMU email and please include the following in your email: full name and specific course number. All instructors teach multiple courses, so this will make it easier for the instructor to address your concerns or questions.

MASON Alert System: This system serves to provide students with emergency information of various kinds. You may sign up for these alerts at <https://alert.gmu.edu>.

EVALUATIONS

3 Exams @ 100 points each – 300 points
Case Study Presentation – 50 points
Attendance/Participation – 25 points
TOTAL = 375 points

For graduate students (BIOL 691): An additional Case Study Presentation (50 points) is required. Total points = 425 points

EXAMS

Exams may include multiple choice, matching, fill in the blank, essay, problem-solving questions, and case study evaluation. There will be no bonus points on your exams.

ODS (Office of Disability Services) ACCOMMODATIONS:

All accommodations must be verified by proper and current documentation by ODS.

It is required that you meet with your instructor to discuss your accommodations at the beginning of the semester to insure proper coordination with ODS, you and your instructor. Accommodations will not be provided retroactive of the date provided on the ODS documentation, and no variations in accommodations will be accepted without additional documentation from ODS.

CASE STUDY PRESENTATIONS

Case study presentation will utilize a SOAP Note Format.

Subjective – patient symptoms

Objective – patient signs; measurable parameters

Assessment – diagnosis with justification

Plan – clinical interventions with justification

Presentation will be evaluated based on the following grading criteria:

Subjective – 5 points

Objective – 5 points

Assessment – 20 points

Plan – 20 points

Case study will be orally presented to the class and instructor team, but points will be assigned based on written submission. Student case study presentations will be assigned at least two weeks prior to the presentation.

GRADING SCALE: Final grades will be based on the following:

A 90 – 100%

B 80 – 89%

C 70 – 79%

D 60 – 69%

F < 60%

TOPIC AND EXAM SCHEDULE

The proposed schedule for the order of topics is provided. Changes may be made to this schedule at the discretion of the instructors. The general format for the course will be as follows for each organ system selected:

Physiology review relevant to selected pathology

Selected pathology discussion

Selected pharmacological interventions

Case study presentation by instructors

PUBLISHING/REDISTRIBUTION OF COURSE MATERIALS:

Some lecture slides, notes, or exercises used in this course may be the property of the textbook publisher or other third parties. All other course material, including but not limited to slides developed by the instructor(s), the syllabus, assignments, course notes, course recordings (whether audio or video) and examinations or quizzes are the property of the University or of the individual instructor who developed them. Students are free to use this material for study and learning, and for discussion with others. Republishing or

redistributing this material, including uploading it to web sites or linking to it through services like YouTube, violates the rights of the copyright holder and is prohibited. There are civil and criminal penalties for copyright violation. **Publishing or redistributing this material in a way that might give others an unfair advantage in this or future courses may subject you to penalties for academic misconduct.**

HONOR CODE:

The Honor Code is an integral part of university life and will be vigorously adhered to in this course. On the application for admission, students sign a statement agreeing to conform to and uphold the Honor Code. Students are responsible, therefore, for understanding the code's provisions. If you do not recall the provisions of this Code, see the excerpts below and/or review them in the GMU University Catalog – Student Rights and Responsibilities/Honor System and Code. If you ever have questions about what is and is not appropriate, be sure to ask for clarification.

Honor Code: *To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University community and with the desire for greater academic and personal achievement, we, the student members of the university community, have set forth this honor code: **Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.***

Student Responsibilities: *Students should request an explanation of any aspect of the professor's policies regarding the Honor Code that they do not fully understand. They also have an obligation not only to follow the code themselves, but also to encourage respect among their fellow students for the provisions of the code. This includes an obligation to report violations by other students to the Honor Committee.*

Clinical Applications in Human Physiology Schedule– Fall 2020

WEEK Dates	TOPIC
1	<p><u>Cardiovascular System</u> Blood Pressure Regulation Review Hypertension CV - Case Study</p>
2	<p>No Class</p> <p><u>Immune System</u> Immunity Review Pertussis vaccine Rheumatoid arthritis; Lymphomas Immune - Case Studies</p>
3	<p>Immune System continued</p> <p><i>Student Case Study Presentation (#1 – Cardiovascular System)</i></p> <p><u>Muscular System</u> Skeletal Muscle Review Myasthenia gravis; Bodybuilding Muscular - Case Studies</p>
4	<p>EXAM #1 (Cardiovascular, Immune and Muscular Systems)</p> <p><i>Student Case Study Presentation (#2 – Immune System)</i></p> <p><u>Nervous System</u> Neurotransmission Review Addiction; Depression Nervous – Case Studies</p>
5	<p><i>Student Case Study Presentation (#3 – Muscular System)</i></p> <p>Nervous System continued</p>
6	<p>Nervous System continued</p>
7	<p><i>Student Case Study Presentation (#4 – Nervous System - Addiction)</i></p> <p><u>Digestive System</u> Stomach and Small Intestine Review Ulcers; GERD; Celiac Disease Digestive - Case Studies</p> <p><i>Student Case Study Presentation (#5 – Nervous System - Depression)</i></p> <p>Digestive System continued</p>

8	<p>No Class; Monday classes meet Tuesday</p> <p>Digestive System continued</p>
9	<p>EXAM #2 (Nervous and Digestive Systems)</p> <p><i>Student Case Study Presentation (#6 – Digestive System)</i></p> <p><u>Endocrine System</u> Regulation and Effects of Insulin and Thyroid Hormones Review Diabetes Mellitus; Graves and Hashimoto’s Diseases Endocrine - Case Studies</p>
10	<p><i>Student Case Study Presentation (#7 – Digestive System)</i></p> <p>Endocrine System continued</p>
11	<p>Endocrine System continued</p>
12	<p><i>Student Case Study Presentation (#8 - Endocrine System – Diabetes)</i></p> <p><u>Reproductive System</u> Menstrual Cycle; Prostate Anatomy; Erection Reviews Amenorrhea Evaluation Oral Contraceptives Benign Prostatic Hyperplasia (BPH) Reproductive Case Studies</p>
13	<p><i>Student Case Study Presentation (#9 – Endocrine System – Thyroid Disease)</i></p> <p>Reproductive System continued Principles of reproductive disease screening</p>
14	<p>EXAM #3 (Endocrine and Reproductive Systems)</p> <p>No classes; Thanksgiving recess</p>
15	<p>Physiological Changes with Age Review Beers List – Guidelines for Prescribing Medication to Geriatric Patients Geriatric Case Study</p>

SeptemberXXX : *Last day to drop classes (100% tuition refund)*

September XXX: *Last day to drop classes (no tuition refund)*

September XX-XX: *Student self-withdrawal period*

October :XX-XX *Selective withdrawal period*