

Arizona State University

MIC 205 – Microbiology Course Syllabus

Polytechnic Campus –Spring 2020

Professor: C. Ryan Penton, PhD
Assistant Professor, CISA &
Biodesign (CFAM)

Office: Wanner Hall 340E

Office Hours: T Th 12:15 – 1:15 pm
Email for appointment

E-mail: crpenton@asu.edu

Time: Lecture – T Th 1:30-2:45 PM

Location: AGBC134

Email: crpenton@asu.edu

This course is offered by the College of Integrative Sciences and Arts. For more information about the college, visit our website: <https://cisa.asu.edu/>. If you have questions or concerns, please send your inquiry to cisa@asu.edu.

Research Websites:

<https://biodesign.asu.edu/c-ryan-penton>

https://www.researchgate.net/profile/Christopher_Penton

<https://scholar.google.com/citations?user=JH2joOcAAAJ&hl=en&oi=ao>

Syllabus

This syllabus serves as our contract for the semester. It states my commitment to you to be prepared for class every day and to provide you with organized, current information. As a student, you have a right to know what is expected of you as the semester begins. As a Professor, I have a right to expect that you have read the syllabus and your continued enrollment in the class means that you accept the conditions and requirements of the course.

Course Description

This course is designed to meet the interests and needs of students majoring in nursing, pre-veterinary medicine, nutrition, and other pre-professional programs. This course may not be used for microbiology major credit unless a diagnostic test is passed. The lecture course for microbiology majors is MIC 220. MIC 205 is a three-hour lecture course that when paired with MIC 206 – Microbiology Laboratory, satisfies the SG general studies requirements.

MIC 205 includes the study of bacteria and other microorganisms, their biochemical properties, their role in disease, research, and the environment. Principles and techniques used in handling, identifying, and controlling microorganisms will be studied. Specific and non-specific host defenses will be explored. Practical application for the health professions will be emphasized.

Course Objectives

MIC 205 is an introductory microbiology course. It is intended as a survey of basic microbiology with an emphasis on the health professions. Topics include introductions to epidemiology, parasitology and immunology. Course objectives include, but are not limited to developing and demonstrating an understanding of the following:

- the difference between eukaryotes, prokaryotes and viruses

- microbial genetics and metabolism
- fungi and fungal diseases
- how microbes impact and improve our world
- the scientific names of organisms that cause human and animal disease
- characteristics of pathogens that contribute to their virulence
- chemical, physical, and chemotherapeutic control of microorganisms
- host defenses that control microbial disease
- how to apply information learned in class to practical and clinical cases

Registration/Attendance

It is imperative that you attend class consistently and be on time. You do not earn credit for being in class. It is to your **advantage to attend class as much material is covered on the board or disseminated orally**, apart from the powerpoint slides.

Please be on time. I realize that once in a while events outside your control will cause you to be late for class. Tardiness becomes an issue in this class when it is chronic. People who come in late distract me and everyone else in the room.

If you choose to not continue with this class, it is important for you to officially withdraw. <http://students.asu.edu/academic-calendar>

Textbook/Supplies/Materials

- **Text:** *Microbiology With Diseases by Body System*, 4th edition by Robert W. Bauman (2015). Pearson Benjamin Cummings, San Francisco, CA. ISBN #978-0-321-91855-0. The book is available in hardback at the campus bookstore; a paperback version is available from Barnes and Noble, Amazon, etc. Also, you can find this textbook for rent at www.chegg.com for half the purchase price. **The book serves as a reference for the material covered in class. NOTE: ALL EXAM MATERIAL WILL COME DIRECTLY FROM LECTURES. THE BOOK IS NOT REQUIRED. HOWEVER, IT WILL SERVE AS A GOOD REFERENCE FOR CLASS MATERIAL AND WILL CERTAINLY BE USED IN FUTURE MEDICAL CLASSES.**
- **Lecture Notes:** It is important that you have a copy of my lecture notes when you come to class either printed out or on a laptop computer. I pace the lecture on the assumption that you already have a basic outline of what I am going to say. My Power Point lecture notes are available on Blackboard. If you do not have Power Point on your computer, you can download a free Power Point Viewer at www.microsoft.com/downloads/en/A2zpage.aspx - choose Power Point and then Power Point Viewer.

Classroom Preparation

You should read the lecture material before coming to class. Learning is primarily your responsibility and a consequence of the preparation and time you are willing to give to this course. **I am available to meet with you outside of class during office hours or by appointment.** You should not attempt to take microbiology when you are overloaded with other classes, work, or family responsibilities. Microbiology is a very time-consuming class and requires dedicated study time to learn the many new terms and scientific names you will encounter. You cannot “cram” microbiology.

It is important that you are able to access and use Blackboard. Tutorials are available at <http://help.asu.edu> if you have questions. You should frequently (daily) access the site for announcements, syllabus updates, class assignments and exam/quiz dates, grades, etc. Go to www.asu.edu/myasu and login using your ASURITE ID and password. Click on MIC 205 under My Courses on the left side of the page. Please notify me if you have any difficulty accessing the site.

Instructional Methods

Since exam questions come predominantly from material discussed in class, it is important that you attend class regularly, be on time, and stay for the entire period. I lecture, use Power Point, videos, and other visual aids in class. Sometimes group activities will replace lecture. The Power Point lecture notes are only an **outline** of the material covered in class and are semester specific. Microbiology is dynamic and information is constantly changing. Therefore, you should not rely on notes passed on to you by students from a previous semester. You **must take notes in addition to the Power Point notes** in order to be successful in this class. If I am writing on the board, then you should be copying as well. I will not wait for students to take pictures of board work during lecture. **Not all slides or boardwork is referenced by the slides you are given.**

Classroom Etiquette

Visitors: If you have a visitor who would like to join you for class, you must get my permission ahead of time. Children are not allowed in class at any time.

Food/drink: Food is not allowed in the lecture hall. Drinks must be in stable, lidded containers.

Cell phones/beepers/laptops: Cell phones and beepers MUST be turned off unless you are in an emergency situation. Please put your phones away when you come to class. Text messaging during lecture is at the very least, rude behavior. But, it is also a distraction to you, me, and your classmates. If you are using a laptop in class, please use it for class-related activities. Surfing the Web during class is extremely distracting to those who sit behind you. I do not allow students to record lectures either for audio or video. Students are not allowed to take pictures of the boardwork. The first infraction for either will result in a warning, the second will result in a "0%" on the next quiz, the third infraction will result in a failing grade for the class.

Personal conversations: While I enjoy interaction with students and encourage discussion between students, lecture is not the time to have personal conversations with others. I expect you to make comments and seek help from your neighbor, but a lengthy conversation with others distracts me and interferes with the learning of those around you. I will ask you to leave if you continually interrupt class.

Grading Criteria

Your grade will be based on the number of points you earn. You will be able to monitor your grades in blackboard. Exam grades are curved. **Extra credit is not available on a per-person basis.** Your grade will be calculated as the mean grade calculated from three of the four exams. Each exam is weighted equally. The final exam is weighted equal to each previous exam. Thus, you are able to drop your lowest exam grade.

Grading Scale

A+	98% - 100%
A	90% - 97%
B +	88% - 89%
B	80% - 87%
C +	78% - 79%
C	70% - 77%
D	60% - 69%
E	Below 60%

I do not “give” a grade to you. You **earn** the grade you receive at the end of the semester based on the number of points you have acquired. However, I do reserve the right to incorporate a subjective evaluation based on your involvement in class, such as attempting to answer questions and attending office hours. Extra credit is given per my discretion on exams. **There is no “extra credit assignment”** given to individual students based on requests, so please, do not ask. Grades are rounded up.

Exams

Exams are listed in the course syllabus and **are subject to change.** The pace of the class determines exam dates, thus they are not provided ahead of time.

****Make up exams are not given, as you are able to drop the lowest exam grade. I retain the right to address extreme, documented circumstances. In these cases, the exams are given after the in-class exam and are ORAL EXAMS to be given at my discretion. Extreme circumstances do not include feeling ill, regardless of a doctor note that states that you should not return to work until after the exam.**

In order to maximize fairness to everyone, the following protocol will be followed for all exams administered in class.

- No materials are allowed on your desk during testing. Backpacks, books, purses and other materials should be out of sight when taking an exam.
- Smart phones, cell phones, beepers, IPODS, IPADS, laptops, and other electronic devices must be turned off and out of sight. If you forget and a device goes off during an exam, you must bring the device to me in order to continue with the exam. If you answer it or read what is on the screen, then you may not be allowed to complete the exam.
- Arriving late for an exam may forfeit your right to take the exam. If you are allowed to take the exam, you do not get extended time to complete it.

- Usually you will not be able to return to an exam once you leave the room. So, please eat, drink and visit the restroom before you come to class.

Graded Lecture Activities

- **Lecture Exams:** Three exams, each worth 100 points, are scheduled. Questions include mostly multiple choice, but may include short answer essay, fill in the blank, matching, T/F. Use study guides that accompany the lecture notes on Blackboard to help you focus on the material covered on the exams.
- **Final Exam:** The final exam is comprehensive and will also include new material covered after Exam #3. Questions will cover general concepts and specific infections/pathogens from previous lectures. See the lecture schedule for exam date/time. **Departmental policies do NOT allow taking the final exam early, or at any other time except the designated final exam time.**

MIC 205 Lecture Schedule – Spring 2020

*Topics, order of topics are subject to change

Exam dates are fluid, based on the pace of the class.

I will provide a 2 week notice of the upcoming exam date.

** Note that exam dates are not provided, as they change with the pace of the class. We may also choose to change topics at any point.

You will be given advance notice regarding the powerpoint slide groups to download from Canvas.

Lecture Topics	Chapter Readings
Introduction to the Course	
Introduction to Microbiology	1
Techniques in Microbiology	4
Prokaryotic and Eukaryotic Cells	3, 4, 11
Prokaryotic and Eukaryotic Cells	3, 4, 11
Microbial Metabolism	5
Microbial Metabolism	5
Bad Bugs	
Exam 1 (generally around Feb 18th)	
Bad Bugs	6, 19-24
Bad Bugs	6, 19-24
Microbial Genetics	7
Microbial Genetics / Bad Bugs	7
Microbial Genetics / Bad Bugs	7
Bad Bugs 2	
Exam 2 (generally around March 31st)	
Innate Immunity	15, 19-24
Innate Immunity / Bad Bugs	16
Adaptive Immunity	16, 19-24
Adaptive Immunity	16
Immunity Overview	
Immunologic Disorders / Bad Bugs	18
Bad Bugs	17-18
Microbial Diseases	19-24
Microbial Diseases	19-24

Microbial Diseases	19-24
Environmental Microbiology / Honors Contract Presentations	
Exam 3 (generally around April 28th)	19-24
Final Exam Review	
FINAL EXAM 4 May 7th, 12:10 pm	Same Lecture Hall

Grade Appeals

ASU has formal and informal channels to appeal a grade. If you wish to appeal any grading decisions, please see <http://catalog.asu.edu/appeal>.

Incompletes

A mark of "I" (incomplete) is given by the instructor when you have completed most of the course and are otherwise doing acceptable work but are unable to complete the course because of illness or other conditions beyond your control. You are required to arrange with the instructor for the completion of the course requirements. The arrangement must be recorded on the Request for Grade of Incomplete form (<http://students.asu.edu/forms/incomplete-grade-request>).

Student Standards

Students are required to read and act in accordance with university and Arizona Board of Regents policies, including:

The ABOR Code of Conduct: Arizona Board of Regents Policies 5-301 through 5-308: <https://students.asu.edu/srr>

Academic Integrity

Academic honesty is expected of all students in all examinations, papers, laboratory work, academic transactions and records. The possible sanctions include, but are not limited to, appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification and dismissal. For more information, see <http://provost.asu.edu/academicintegrity>

If you fail to meet the standards of academic integrity in any of the criteria listed on the university policy website, sanctions will be imposed by the instructor, school, and/or dean. Academic dishonesty includes borrowing ideas without proper citation, copying others' work (including information posted on the internet), and failing to turn in your own work for group projects. Please be aware that if you follow an argument closely, even if it is not directly quoted, you must provide a citation to the publication, including the author, date and page number. If you directly quote a source, you must use quotation marks and provide the same sort of citation for each quoted sentence or phrase. You may work with other students on assignments, however, all writing that you turn in must be done independently.

Note

Turning in an assignment (all or in part) that you completed for a previous class is considered self-plagiarism and falls under these guidelines. Any infractions of self-plagiarism are subject to the same penalties as copying someone else's work without proper citations. Students who have taken this class previously and would like to use the work from previous assignments should contact the instructor for permission to do so.

Prohibition of Commercial Note Taking Services

In accordance with ACD 304-06 Commercial Note Taking Services, written permission must be secured from the official instructor of the class in order to sell the instructor's oral communication in the form of notes. Notes must have the note taker's name as well as the instructor's name, the course number, and the date.

Student Support and Disability Accommodations

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 the Disability Resource Center (DRC) facilitate a comprehensive range of academic support services and accommodations for qualified students with disabilities.

Qualified students with disabilities may be eligible to receive academic support services and accommodations. Eligibility is based on qualifying disability documentation and assessment of individual need. Students who believe they have a current and essential need for disability accommodations are responsible for requesting accommodations and providing qualifying documentation to the DRC. Every effort is made to provide reasonable accommodations for qualified students with disabilities. Qualified students who wish to request an accommodation for a disability should contact their campus DRC at:

<http://www.asu.edu/studentaffairs/ed/drc/>

If you are a student in need of special arrangements, we will do all we can to help, based on the recommendations of these services. For the sake of equity for all students, we cannot make any accommodations without formal guidance from these services. Typically, once a student discloses the need for an accommodation through their study abroad application, the Study Abroad Office, the academic unit, the student and DRC will develop a plan on how to best accommodate the student within the parameters available within the onsite locations.

Drop and Add Dates/Withdrawals

Please refer to the academic calendar on the deadlines to drop/withdraw from this course. Consult with your advisor and notify your instructor if you are going to drop/withdraw this course. If you are considering a withdrawal, review the following ASU policies: Withdrawal from Classes, Medical/Compassionate Withdrawal.

Please note that the ASU Academic Calendar only refers to withdrawal for the academic portion of your study abroad program. Please refer to the Study Abroad Withdrawal Policies for important dates regarding withdrawing from your Faculty Directed program.

Email Communications

All email communication for this class will be done through your ASU email account. You should be in the habit of checking your ASU email regularly as you will not only receive important information about your class(es), but other important university updates and information. You are solely responsible for reading and responding if necessary to any information communicated via email. For help with your email go to: http://help.asu.edu/sims/selfhelp/SelfHelpHome.seam?dept_pk=822 and file a help desk ticket by clicking on "My Help Center."

Campus Resources

As an ASU student you have access to many resources on campus. This includes tutoring, academic success coaching, counseling services, financial aid, disability resources, career and internship help and many opportunities to get involved in student clubs and organizations.

- Tutoring: <http://studentsuccess.asu.edu/frontpage>
- Counseling Services: <http://students.asu.edu/counseling>
- Financial Aid: <http://students.asu.edu/financialaid>
- Disability Resource Center: <http://www.asu.edu/studentaffairs/ed/drc/>
- Major/Career Exploration: <http://uc.asu.edu/majorexploration/assessment>
- Career Services: <http://students.asu.edu/career>
- Student Organizations: <http://www.asu.edu/studentaffairs/mu/clubs/>

Harassment Prohibited:

ASU policy prohibits harassment on the basis of race, sex, gender identity, age, religion, national origin, disability, sexual orientation, Vietnam era veteran status, and other protected veteran status. Violations of this policy may result in disciplinary action, including termination of employees or expulsion of students. Contact Student Life (UCB 221) if you feel another student is harassing you based on any of the factors above; contact EO/AA (480-965-5057) if you feel an ASU employee is harassing you based on any of the factors above.

Establishing a Safe Environment:

Learning takes place best when a safe environment is established in the classroom. In accordance with SSM 104-02 of the Student Services Manual, students enrolled in this course have a responsibility to support an environment that nurtures individual and group differences and encourages engaged, honest discussions. The success of the course rests on your ability to create a safe environment where everyone feels comfortable to share and explore ideas. We must also be willing to take risks and ask critical questions. Doing so will effectively contribute to our own and others intellectual and personal growth and development. We welcome disagreements in the spirit of critical academic exchange, but please remember to be respectful of others' viewpoints, whether you agree with them or not.

Syllabus Disclaimer:

The course syllabus is 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 Announcements section on Blackboard.

Student Conduct Statement:

Students are required to adhere to the behavior standards listed below:

•Arizona Board of Regents Policy Manual Chapter V– Campus and Student Affairs: Code of Conduct <http://www.azregents.edu/policymanual/default.aspx>

•ACD 125: Computer, Internet, and Electronic Communications
<http://www.asu.edu/aad/manuals/acd/acd125.htm> , and

•the ASU Student Academic Integrity Policy
<http://www.asu.edu/studentaffairs/studentlife/srr/index.htm>

Students are entitled to receive instruction free from interference by other members of the class. If a student is disruptive, an instructor may ask the student to stop the disruptive behavior and warn the student that such disruptive behavior can result in withdrawal from the course. An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10 (<http://www.asu.edu/aad/manuals/usi/usi201-10.html>).

Course discussion messages should remain focused on the assigned discussion topics. Students must maintain a cordial atmosphere and use tact in expressing differences of opinion.

Inappropriate discussion board messages may be deleted if an instructor feels it is necessary. Students will be notified privately that their posting was inappropriate. Student access to the course Send Email feature may be limited or removed if an instructor feels that students are sending inappropriate electronic messages to other students in the course.

Religious Accommodations for Students:

In accordance with ACD 304-04 students who need to be absent from class due to the observance of a religious holiday or participate in required religious functions must notify the faculty member in writing as far in advance of the holiday/obligation as possible. Students will need to identify the specific holiday or obligatory function to the faculty member. Students will not be penalized for missing class due to religious obligations/holiday observance. The student should contact the class instructor to make arrangements for making up tests/assignments within a reasonable time.

Missed Classes Due to University-Sanctioned Activities

In compliance with ACD 304-02 students who participate in university-sanctioned activities that require classes to be missed, should be given opportunities to make up examinations and other graded in-class work. However, absence from class or examinations due to university-sanctioned activities does not relieve students from responsibility for any part of the course work required during the period of the absence.

The provost of the university or designee shall determine, for the purposes of this policy, whether a particular event qualifies as a university-sanctioned activity.

In each college, a specific individual (e.g., dean's designee) should be responsible for facilitating adherence to this policy. In particular, students who participate in university-sanctioned activities should be given the opportunity to make up examinations or other graded in-class work due to classes missed because of that activity, unless it can be shown that such an accommodation would constitute an unreasonable burden on the instructor. Should disagreement arise over what constitutes such a burden, the instructor and the student should initially contact the [academic unit chair](#) or the dean's designee.

The specific activity program coordinator (e.g., assistant athletics director for academic services, director of forensics, director of bands) should, as early as possible, provide the college-designated individual with the class schedule of any student who may be required to miss class because of a university-sanctioned activity.

Students should inform their instructors early in the semester of required class absences. Instructors should attempt to provide opportunities for equivalent work, either before or after the class absence, in accordance with any [academic unit](#) or college requirements, which may apply.

Incomplete grades (I) should not be used unless deemed necessary by the respective faculty.

Trigger Warning

Please note that some course content may be deemed offensive by some students, although it is not my intention to offend anyone. In addition, some materials that we link with online might also be considered offensive, troubling, or difficult to review in terms of language or graphics. I attempt to provide warnings when introducing this kind of material; yet if I forget to do so, or if something else (in my materials or posts from fellow students) seems offensive, please contact me at crpenton@asu.edu.

Prohibition of Commercial Notetaking Services

In accordance with [ACD 304-06 Commercial Note Taking Services](#), written permission must be secured from the official instructor of the class in order to sell the instructor's oral communication in the form of notes. Notes must have the note taker's name as well as the instructor's name, the course number, and the date.

Students with Disabilities

If you need academic accommodations or special consideration of any kind to get the most out of this class, please let me know at the beginning of the course. If you have a disability and need a reasonable accommodation for equal access to education at ASU, please call Disability Resources for Students (DRC). The site can be found at eoss.asu.edu/drc. Instructors cannot provide accommodations without authorization from the DRC.

Downtown Phoenix Campus

University Center building, Suite 160

Phone: 602.496.4321

E-mail: DRCDowntown@asu.edu

Polytechnic Campus

Sutton Hall - Suite 240

Phone: 480.727.1039

E-mail: DRCPoly@asu.edu

Tempe Campus

Matthews Center building, 1st floor

Phone: 480.965.1234

E-mail: DRCTempe@asu.edu

West Campus

University Center Building, Room 130

Phone: 602.543.8145

E-mail: DRCWest@asu.edu

Mental Health

As a student, like anyone else, you may experience a range of challenges that can interfere with learning, such as strained relationships, increased anxiety, substance use, feeling down, difficulty concentrating and/or lack of motivation. These emotional health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. ASU Counseling Services provides counseling and crisis services for students who are experiencing a mental health concern. Any

student may call or walk-in to any ASU counseling center for a same day or future appointment to discuss any personal concern. Here is the Web site: eoss.asu.edu/counseling. After office hours and 24/7 ASU's dedicated crisis line is available for crisis consultation by calling 480-921-1006.

Student Code of Conduct

Students are required to adhere to the behavior standards listed in the Arizona Board of Regents Policy Manual Chapter V –Campus and Student Affairs: Code of Conduct located online at students.asu.edu/srr/code and the ACD 125: Computer, Internet, and Electronic Communications available at asu.edu/aad/manuals/acd/acd125.html.

Students are entitled to receive instruction free from interference by other members of the class. An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10 asu.edu/aad/manuals/ssm/ssm201-10.html. An instructor may withdraw a student from a course with a mark of "W" or "E" when the student's behavior disrupts the educational process. Disruptive classroom behavior for this purpose is defined by the instructor.

Harassment Prohibited

ASU policy prohibits harassment on the basis of race, sex, gender identity, age, religion, national origin, disability, sexual orientation, Vietnam era veteran status, and other protected veteran status. Violations of this policy may result in disciplinary action, including termination of employees or expulsion of students. Contact the professor if you are concerned about online harassment of any kind, and he/she will put you in contact with the Dean of Students office.

Title IX

Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at <https://sexualviolenceprevention.asu.edu/faqs>.

As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, <https://eoss.asu.edu/counseling>, is available if you wish to discuss any concerns confidentially and privately.

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Campus Resources

There is clear evidence that students who take advantage of academic support services perform better academically. As an ASU student you have access to many resources on campus. This includes tutoring, academic success coaching, counseling services, financial aid, disability resources, career and internship help and many opportunities to get involved in student clubs and organizations.

- Tutoring: students.asu.edu/academic-success
- Counseling Services: students.asu.edu/counseling
- Financial Aid: students.asu.edu/financialaid
- Disability Resource Center: asu.edu/studentaffairs/ed/drc/
- Major/Career Exploration: uc.asu.edu/majorexploration/assessment
- Career Services: students.asu.edu/career
- Student Organizations: asu.edu/studentaffairs/mu/clubs/
- [ASU Writing Centers: tutoring.asu.edu/writing-centers](https://tutoring.asu.edu/writing-centers)
- [ASU Police Department: cfo.asu.edu/police](https://cfo.asu.edu/police)
- [International Student Resources: students.asu.edu/international/support/academic](https://students.asu.edu/international/support/academic)