CISCO COLLEGE
Syllabus – Spring 2016

INSTRUCTOR: Justin Williams
Cell (325) 669-2873
Email: jcatwilliams@gmail.com

COURSE: Special Studies and Bioethical Issues of Biotechnology- BITC 1350

COURSE STRUCTURE
AND CREDITS: Wednesday 5:30-8:30
3 hr Lecture
Total of 3 semester hours

PREREQUISITES: None

COURSE DESCRIPTION: Current events, skills, attitudes, and behaviors pertinent to biotechnology and relevant to the professional development of the student. Includes exploration of ethical and legal behaviors in the context of the biotechnology industry.

LEARNING OUTCOMES: Analyze ethical, legal and societal issues associated with current practices of the biotechnology industry; demonstrate ethical and legal concepts through an activity such as debate; and evaluate the advantages and disadvantages of biotechnology innovations.

REQUIRED TEXTBOOK/AND/OR MATERIALS: Third Edition: Scientific Integrity By Francis L. Macrina

EVALUATION METHODS/GRADING:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>50%</td>
</tr>
<tr>
<td>Written Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Short Quizzes</td>
<td>30%</td>
</tr>
</tbody>
</table>

GRADES:

90 - 100 = A
80 - 89 = B
70 - 79 = C
60 - 69 = D
BELOW 60 = F

ATTENDANCE: Prompt and regular attendance is considered necessary for satisfactory work. Cisco College recognizes that absences from class may occur due to illness, death, or illness in the immediate family, observance of a religious holiday, or participation in a college-sponsored activity. For a class that meets one (1) time per week, a student is allowed three absences. If a student misses one more than the allowed number of absences, the student may be dropped from the class if the instructor deems the student to be failing due to excessive absences and/or failure to make up work due to absences.

Presentation: A total of three presentations will be given over current topics and controversial biotechnology.

QUIZZES: There will be short quizzes given throughout the semester; therefore the students should be prepared at any time to be quizzed over the information.

PARTICIPATION: Participation in class discussion is essential for the learning experience of all. We learn from listening to others expressing their opinions and from the expression of our own opinions.

NOTICES: Course Content College-level courses may include controversial, sensitive, and/or adult material. Students are expected to have the readiness for college-level rigor and content.

Academic Integrity It is the intent of Cisco College to foster a spirit of complete honesty and a high standard of integrity. The attempt of students to present as their own any work they have not honestly performed is regarded by the faculty and administration as a serious offense and renders the offender liable to serious consequences, possibly suspension.

Changes to the Syllabus The schedule and procedures in this syllabus are subject to change if deemed appropriate by the instructor.
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Total of 3 semester hours

January 19  
Introduction
Pre-Test
Overview of Syllabus

January 26  
Week 2
Chapter 1: Methods, Manners and the Responsible Conduct of Research

February 2  
Week 3
Chapter 2: Ethics and the Scientist

February 9  
Week 4
Chapter 3: Mentoring

February 16  
Week 5
Presentations

February 23  
Week 6
Chapter 4: Authorship and Peer Review

March 1  
Week 7
Chapter 5: Use of Humans in Biomedical Experimentation

March 8  
Spring Break

March 15  
Week 8
Chapter 5: Continued

March 22  
Week 9
Chapter 6: Use of Animals in Biomedical Experimentation

March 29  
Week 10
OPEN

April 5  
Week 11
Chapter 7: Managing Competing Interests

April 12  Week 12
Chapter 8: Collaborative Research

April 19  Week 13
Chapter 9: Ownership of Data and Intellectual Property

April 26  Week 14
Chapter 10: Genetic Technology and Scientific Integrity

May 3  Week 15
Chapter 11: Scientific Record Keeping

May 10  No Final
INSTRUCTOR: Justin Williams
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COURSE: BITC 1391 Special Topics- Immunology

COURSE STRUCTURE AND CREDITS:
2 hr Lecture
2 hr Lab
Total of 3 semester hours

PREREQUISITES: None

COURSE DESCRIPTION:
Topics address recently identified current events, skills knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

LEARNING OUTCOMES:
Acquire the skills needed to read scientific journals and be current with immunological studies.

REQUIRED TEXTBOOK/AND/OR MATERIALS:
Third Edition: Updated Basic Immunology by Abul K. Abbas and Andrew H. Lichtman

EVALUATION METHODS/GRADING:
3 Lecture tests – 2 chapter/1FINAL = 50%
Post-Lab Reports = 20%
Short Quizzes = 30%
100%

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EXAMS:
A total of five (5) exams will be given. Three in class exams which will test the student's knowledge over reviewed chapters. Two laboratory exams which will test the student’s skill level within the laboratory.

MISSED EXAMS:
There will be NO make-ups for missed exams, quizzes or labs. Each student will receive three dropped grades at the end of the semester one exam, one quiz and on lab grade, as we understand that unexpected things happen in life. Students may NOT drop the final exam grade.

POST-LAB REPORTS:
A written report of your laboratory work is due a week after all the work of thus lab has been completed. Guidelines for this report will be provided.

QUIZZES:
There will be short quizzes given throughout the semester both in class and in lab, therefore the students should be prepared at any time to be quizzed over the information.

PARTICIPATION:
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<table>
<thead>
<tr>
<th>Date</th>
<th>Text /Chapter</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 18</td>
<td>Holiday</td>
<td></td>
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<tr>
<td>Jan 25</td>
<td>Introduction, Chapter 1</td>
<td>Pre-test</td>
</tr>
<tr>
<td>Feb 1</td>
<td>Chapter 1 continued</td>
<td></td>
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<tr>
<td>Feb 8</td>
<td>Chapter 2</td>
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<td>Feb 15</td>
<td>Chapter 2 continued</td>
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<tr>
<td>Feb 22</td>
<td></td>
<td>Exam Chapter 1-2</td>
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<tr>
<td>Feb 29</td>
<td>Chapter 3</td>
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<td>Mar 7</td>
<td>Spring Break</td>
<td></td>
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<tr>
<td>Mar 14</td>
<td>Chapter 3 continued</td>
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<td>Mar 21</td>
<td>Open</td>
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<td>Mar 28</td>
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<td>Apr 4</td>
<td>Chapter 4 continued</td>
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<td>Apr 11</td>
<td></td>
<td>Exam Chapter 3-4</td>
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<tr>
<td>Apr 18</td>
<td>Chapter 5</td>
<td></td>
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<tr>
<td>Apr 25</td>
<td>Chapter 5 continued</td>
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<tr>
<td>May 2</td>
<td>Final Review</td>
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<tr>
<td>May 9</td>
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<td>FINAL EXAM</td>
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INSTRUCTOR: Justin Williams  
Cell (325) 669-2873  
Email: jcatwilliams@gmail.com

COURSE: BITC 2411 Instrumentation

COURSE STRUCTURE AND CREDITS:  
2 hr Lecture  
4 hr Lab  
Total of 3 semester hours

PREREQUISITES: None

COURSE DESCRIPTION: Theory, applications, and operation of various analytical instruments. Addresses separation and identification techniques including electrophoresis, spectrophotometry, and chromatography.

LEARNING OUTCOMES: Complete and understand all the operations of protein purification and expression through experimentation.

REQUIRED TEXTBOOK/SECOND EDITION  
Basic Laboratory Methods for Biotechnology by Lisa A. Seidman

AND/OR MATERIALS:

EVALUATION METHODS/3 Lecture tests – 2 chapter/1FINAL     = 50%  
Post-Lab Reports = 20%  
Participation = 10%  
Short Quizzes = 20%  
100%

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EXAMS: A total of five (5) exams will be given. Three online exams which will test the student’s knowledge over reviewed chapters. Two laboratory exams which will test the student’s skill level within the laboratory.

MISSED EXAMS: There will be NO make-ups for missed exams, quizzes or labs. Each student will receive a dropped grade at the end of the semester in each category, as we understand that unexpected things happen in life (ex. Each student may drop one exam, one quiz and one lab grade.) Students may NOT drop the final exam grade.

POST-LAB REPORTS: A written report of your laboratory work is due a week after all the work of thus lab has been completed. Guidelines for this report will be provided.

QUIZZES: There will be short quizzes given throughout the semester both online and in lab, therefore the students should be prepared at any time to be quizzed over the information.

PARTICIPATION: Participation in class discussion is essential for the learning experience of all. We learn from
listening to others expressing their opinions and from the expression of our own opinions. This participation is graded upon involvement in labs and online discussion boards.

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Schedule – Instrumentation (BITC-2411)

**Spring 2016**

Thursday  Online lecture

January 21  Introduction
Pre-Test
Overview of Syllabus

January 28  Week 2
No LAB
Electrophoresis: Theory

February 4  Week 3
Electrophoresis: Application

February 11  Week 4
Electrophoresis: Operation

February 18  Week 5
Test on Electrophoresis

February 25  Week 6
Spectrophotometry: Theory
March 3  Week 7
Spectrophotometry: Application

March 10  Week 8
SPRING BREAK

March 17  Week 9
Spectrophotometry: Operation

March 24  Week 10
Test on Spectrophotometry

March 31  Week 11
Chromatography: Theory

April 7  Week 12
Chromatography: Application

April 14  Week 13
Chromatography: Operation

April 21  Week 14
Test on Chromatography

April 28  Week 15
Review for final

May 5  Comprehensive Final
INSTRUCTOR: Justin Williams  
Phone: (325) 669-2873  
Email: jcatwilliams@gmail.com

COURSE: BITC 2441 – Molecular Biology Techniques

COURSE STRUCTURE AND CREDITS: 3 lecture hours, 3 lab hours – 4 semester hours

PREREQUISITES: None

COURSE DESCRIPTION: In-depth coverage of the theory and laboratory techniques in molecular biology with an emphasis on gene expression and regulation, recombinant DNA, and nucleic acids.

LEARNING OUTCOMES: Demonstrate laboratory techniques used in the analysis of DNA including: DNA extraction, PCR, gel electrophoresis, restriction enzyme digestion, cloning vectors, heat-shock transformation, plasmid prep, and bioinformatic analysis.

REQUIRED TEXTBOOK/AND/OR MATERIALS: Biochemistry Laboratory, Boyer, 2nd edition

EVALUATION METHODS/GRADING:  
- 2 Lecture Tests + 1 final = 50%
- Post-Lab Reports = 30%
- Quizzes = 20%
- 100%

GRADING SYSTEM:  
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LATE POLICY: For any post-lab or assignment, one week late will result in a 5 pt deduction from the grade given that assignment. Two weeks late will result in a 10 pt reduction. Three to four weeks late will result in a 30 pt reduction. Five weeks and later will not be accepted.

EXAMS: A total of three exams will be given. These exams will cover both material covered in lecture and in lab. The final will be cumulative. If an exam is missed, the make-up will be on the student’s own time and must be made up prior to the next class meeting. If the test is not taken in the time frame allowed, a zero will be given on that specific exam.

POST-LAB REPORTS: A written report of laboratory work performed is due the following week of each lab. Guidelines will be provided. Due to the time involved in preparing and
working through each lab, a missed lab cannot be made up; however, one may still obtain the data from other lab group members, complete the post-lab, and turn it in for a maximum of a 70. Missed labs must be turned in on time or will not be accepted.

**QUIZZES:**
Short quizzes will be administered throughout the semester, preferably weekly. They will be announced a week prior and will cover the previous week’s material. Missed quizzes cannot be made up; however, the three lowest quiz grades will be dropped.

**PARTICIPATION:**
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BITC 2441 Lecture Schedule: Tues 5:30-8:30, Lab 8:30-11:30
(Subject to minor revision)

January 19
Introduction

January 26
DNA structure and Function; Central Dogma – tropp 20-25, boyer 267-274
Lab 1 – ch.1 with optional, 1st pcr chapter 2

February 2
DNA Isolation I: Centrifugation – tropp 5.1, 5.3, boyer 275-278 and ch.4
Lab 2 – 2nd pcr chapter 2, electrophoresis 1st pcr

February 9
DNA Isolation II: Electrophoresis – tropp 5.4, boyer 279-287 and ch.6
Lab 3 – electrophoresis 2nd pcr, ch.4

February 16
DNA Isolation II: Electrophoresis continued; Spectroscopy
Lab 4 – ch.5 and 6

February 23
Test Review
Lab 5 – ch. 7, ch.8

March 1
TEST 1

March 8
Spring Break

March 15
Molecular Cloning I: Restriction Endonucleases and plasmids – tropp 5.5, 152-153, 240-241, boyer 10a and 10b
Lab 6 – s-51

March 22
Molecular Cloning II
Lab 7 – ch.9

March 29
PCR I – tropp 156-164, boyer 300-305
Lab 8 – ch.9

April 5
PCR II
Lab 10 – ch.9

April 12
Sequencing, reverse transcriptase, DNA chips, Blotting – tropp 165-171
Lab 11 – ch. 9

April 19
Test Review
Lab 12 -- 207

April 26
TEST 2

May 3
Final Review
Lab 12 -- 207

May 10
FINAL
INSTRUCTOR: Justin Williams  
Phone: (325) 669-2873  
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COURSE: BITC 2445 – Medical Biotechnology

COURSE STRUCTURE AND CREDITS: 2 lecture hours, 4 lab hours – 4 semester hours

PREREQUISITES: None

COURSE DESCRIPTION: Biotechnology as it applies to medicine and medical research. Includes molecular mechanisms underlying diseases such as cancer, diabetes, heart disease, and AIDS. Covers the applications of biotechnology to the diagnosis and treatment of disease as well as the development of drugs and therapeutic agents. Emphasizes research and medical-related biotechnology methods and laboratory procedures.

LEARNING OUTCOMES: Demonstrate knowledge of current uses of biotechnology in medicine. This includes drug development, disease diagnosis and treatment, and laboratory techniques.

REQUIRED TEXTBOOK/AND/OR MATERIALS: *Medical Biotechnology*, Pongracz & Keen

EVALUATION METHODS/GRADING:

- 2 Lecture Tests + 1 Final = 50%
- Lecture Quizzes = 25%
- Lab Quizzes or Reports = 25%
- = 100%

GRADING SYSTEM:

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EXAMS: A total of three exams will be given. These exams will cover both material from lecture and lab. The final will be cumulative. If an exam is missed, the make-up will be on the student’s own time and must be made up prior to the next class meeting. If the test is not taken in the time frame allowed, a zero will be given on
that specific exam.

**POST-LAB REPORTS:** A written report of laboratory work performed is due the following week of each lab. Guidelines will be provided. Due to the time involved in preparing and working through each lab, a missed lab cannot be made up; however, one may still obtain the data from other lab group members, complete the post-lab, and turn it in for a maximum of a 70. Missed labs must be turned in on time or will not be accepted.

**QUIZZES:** Short quizzes will be administered throughout the semester, preferably weekly. They will be announced a week prior and will cover the previous week's material. Missed quizzes cannot be made up; however the three lowest quiz grades will be dropped.

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BITC 2445 Lecture Schedule: Wed 5:30-7:30, Lab 7:30-11:30
(Subject to minor revision)

January 20
Introduction

January 27
Molecular Basis of Disease/ Genetic Basis of Disease

February 3
Genetic Analysis

February 10
Epigenetics

February 17
Protein Structure and Function

February 24
Proteomics and metabolomics

March 2
Vaccines/ Test Review

March 9
Spring Break

March 16
TEST 1

March 23
Transgenics

March 30
Pharmacogenetics

April 6
Gene Therapy

April 13
Biopharmaceuticals/ Test Review

April 20
TEST 2

April 27
Stem cells and tissue engineering

May 4
Final Review

May 11
FINAL