

PROFESSOR: BLAKE BARRON

BLAKE'S OFFICE: EBS 322

BLAKE'S OFFICE HOURS: Monday 10:00 AM - 11:00 AM, Tuesday, 2:00 PM - 3:00 PM
Wednesday 10:00 AM - 11:00 AM, Thursday, 2:00 PM - 3:00 PM
or other office hours at any time by previously arranged appointment

E-MAIL ADDRESS: biosex@biosciweb.net

TELEPHONE #: 965 - 0581 extension 2444

TURN OFF YOUR CELL PHONE OR NOISY PAGER NOW, IT IS THE LAST TIME IT WILL BE ON IN THIS CLASS!

INTRODUCTION: Welcome to **Biomedical Science 136** and the fascinating, appealing and fun study of the structure, function, lifelong changes in and diversity of human reproduction! The Biology of Human Sexuality is a course that primarily emphasizes the biological aspects of sexual reproduction in humans. This is a 3 unit lecture-only course designed for non-majors, majors and allied health students who may not have a formal background in biology. Please note however that this is a science course and not a psychology or sociology course and thus it will primarily focus on topics of discussion related to biological science. This course satisfies the SBCC General Education Requirement in Natural Sciences and this course is also transferable to the CSU as a life science course without a laboratory. Registered Nurses will receive 30 CEUs by taking this course. For this course, you are expected to attend one 3 hour lecture each week. There will be **multiple hours of study outside of class** each week required on your part to successfully complete this course. There is no laboratory component to this course.

TEXTS: There are **two required texts:** *Human Reproductive Biology*, by Jones, 3rd or 2nd edition and *Human Reproductive Biology*, by Mader, 3rd edition or recent edition. I suggest that you **skim the reading assignments before coming to class and then read the text assignments thoroughly after you attend lecture** as you will be better prepared to grasp the material presented in the textbooks. The texts will be supplemented by handouts and diagrams which you will find useful in obtaining a greater understanding of the biology of human sexuality.

LECTURE NOTES: A **required** series of supplementary lecture notes, vocabulary lists, review sheets, and practice quizzes are available for download as PDF files from my website (<http://www.biosciweb.net/biosex>). *Please contact me if you do not have access to a computer or the Internet. Additional required handouts will be distributed in lecture.*

LECTURES: Tuesday & Thursday, 9:35 am - 10:55 am in EBS 210 (# 31000)

ASSIGNMENTS	DATE	POINTS	% of COURSE GRADE
Three Lecture Exams:	Thursday, September 18 th , 9:35 am - 10:55 am	100	~13%
	Thursday, October 23 rd , 9:35 am - 10:55 am	100	~13%
	Thursday, November 20 th , 9:35 am - 10:55 am	100	~13%
Final Exam:	Thursday, December 11 th , 8:00 am - 10:00 am	125	~16%
Literature Search Papers:	2 papers @ 100 points each; Oct 9 & Nov 25	200	25%
Homework/Group/Web-Based/Discussion Assignments:	(to be assigned)	150	~19%
Attendance:		25	~3%
TOTAL:		800	100%

All of the exams will be held in EBS 210.

OPTIONAL REVIEW SESSIONS FOR EXAMS WILL BE SCHEDULED OUTSIDE NORMAL CLASS HOURS.

EXAMS: Each of the exams will consist of a varied combination of multiple choice, true-false, fill-in-the-blank, sentence completion, matching, short answer, essay, and diagram/graph interpretation questions.

1. THE LECTURE EXAMS WILL NOT BE CUMULATIVE.
2. THE FINAL EXAMINATION WILL HAVE A 25 POINT CUMULATIVE AND COMPREHENSIVE COMPONENT.
3. A MISSED LECTURE EXAM WILL AUTOMATICALLY LOWER YOUR COURSE GRADE BY ONE LETTER GRADE. THE FINAL EXAM IS AN ABSOLUTE REQUIREMENT, YOU CANNOT PASS THIS COURSE WITHOUT TAKING THE FINAL EXAM.
4. NONE OF THE EXAMS WILL BE DROPPED. ALL EXAMS SCORES WILL COUNT TOWARD THE FINAL GRADE.

REQUIRED READING ASSIGNMENTS IN THE TEXTS ARE LISTED BELOW

LECTURE SCHEDULE

THIS SCHEDULE MAY BE MODIFIED DURING THE COURSE AT MY DISCRETION

WEEK	DATES	LECTURE & DISCUSSION TOPIC
1	AUG 26 & 28	COURSE INTRODUCTION, DEFINITIONS OF SEX & SEXUALITY & BASIC PHYSIOLOGICAL PRINCIPLES: HOMEOSTASIS ORGAN SYSTEMS, HORMONES & HUMAN SEXUALITY IN THE 20 TH CENTURY AND BEYOND (MOVIE) READING ASSIGNMENT IN JONES: CHAPTER 1 pgs. 3 - 10 & CHAPTER 5 pgs. 125 - 133 & CHAPTER 8 pgs. 193 - 194 & CHAPTER 17 pgs. 463 - 467 READING ASSIGNMENT IN MADER: CHAPTER 6: pgs. 71 - 73
2	SEPT 2 & 4	FUNDAMENTAL ASPECTS OF CELL STRUCTURE AND FUNCTION & THE HUMAN LIFE CYCLE READING ASSIGNMENT IN MADER: CHAPTERS 1, 2, 3 & 4 CELL DIVISION READING ASSIGNMENT IN MADER: CHAPTERS 1, 2, 3 & 4
3	SEPT 9 & 11	DNA, BASIC MOLECULAR BIOLOGY, GENETICS, HEREDITY & SEX CHROMOSOMES READING ASSIGNMENT IN MADER: CHAPTERS 1, 2, 3 & 4 MORE GENETICS: SEX & BIOTECHNOLOGY, CLONING & "DESIGNER BABIES", GENETIC DISORDERS OF SEX READING ASSIGNMENT IN JONES: CHAPTERS 5: pgs. 125 - 145 & CANCERS: CHAPTER 2 pgs. 45 - 51 & 59 - 67 & CHAPTER 4 pgs. 109 - 110 READING ASSIGNMENT IN MADER: CHAPTERS 3, 4 & 6: pgs. 71 - 73
4	SEPT 16	THE BIOLOGY OF CANCER & CANCERS OF THE MALE AND THE FEMALE REPRODUCTIVE SYSTEMS READING ASSIGNMENT IN JONES: CHAPTERS 5: pgs. 125 - 145 & CANCERS: CHAPTER 2 pgs. 45 - 51 & 59 - 67 & CHAPTER 4 pgs. 109 - 110 READING ASSIGNMENT IN MADER: CHAPTERS 3, 4 & 6: pgs. 71 - 73

THURSDAY SEPT 18 FIRST LECTURE EXAMINATION

- 5 SEPT 23 & 25 MALE REPRODUCTIVE ANATOMY & STRUCTURE AND FUNCTION OF THE TESTES: SPERMATOGENESIS, (SPERM PRODUCTION), STEROIDOGENESIS, SPERM COUNTS, ENDOCRINE DISRUPTERS OF THE MALE REPRODUCTIVE SYSTEM & THE USE AND ABUSE OF ANABOLIC STEROIDS
READING ASSIGNMENT IN JONES: CHAPTER 4
READING ASSIGNMENT IN MADER: CHAPTERS 5 & 6
- 6 SEPT 30 &
OCT 2 FEMALE REPRODUCTIVE ANATOMY & ANIMAL ESTROUS CYCLES
READING ASSIGNMENT IN JONES: CHAPTERS 2 & 3
READING ASSIGNMENT IN MADER: CHAPTERS 5 & 6
THE MENSTRUAL CYCLE I: HORMONAL CHANGES, STEROIDOGENESIS, OVULATION, MENSTRUATION & CHANGES IN THE FEMALE REPRODUCTIVE TRACT
READING ASSIGNMENT IN JONES: CHAPTER 3
READING ASSIGNMENT IN MADER: CHAPTERS 5 & 6
- 7 OCT 7 & 9 THE MENSTRUAL CYCLE II: MENSTRUAL CYCLE DISORDERS, PREMENSTRUAL SYNDROME (PMS) & ARE LARGE NUMBERS OF MENSTRUAL CYCLES "NORMAL"?
READING ASSIGNMENT IN JONES: CHAPTER 3
READING ASSIGNMENT IN MADER: CHAPTERS 5 & 6
FIRST LITERATURE SEARCH ASSIGNMENT IS DUE OCT 9
(NO LATE PAPERS ACCEPTED - NO EXCEPTIONS!)
- 8 OCT 14 & 16 STRUCTURE AND FUNCTION OF THE HYPOTHALAMO-PITUITARY AXIS & HOW THE BRAIN CONTROLS THE GONADS AND HUMAN LIFE STAGES: PUBERTY TO MENOPAUSE
READING ASSIGNMENT IN JONES: CHAPTERS 1, 6 & 7
READING ASSIGNMENT IN MADER: CHAPTERS 5 & 6
- 9 OCT 21 HUMAN SEXUAL AROUSAL: RESPONSE & SEXUAL DYSFUNCTION
READING ASSIGNMENT IN JONES: CHAPTERS 5 & 17
READING ASSIGNMENT IN MADER: CHAPTER 7

THURSDAY OCT 23 SECOND LECTURE EXAMINATION

- 10 OCT 28 & 30 HUMAN SEXUAL AROUSAL: RESPONSE & SEXUAL DYSFUNCTION & EVOLUTION: WHY SEX? (MOVIE) AND EVOLUTION OF SEXUAL BEHAVIOR: HUMAN AND ANIMAL MODELS; BIOLOGICAL BASIS OF MATE SELECTION AND PAIR BONDING DIVERSITY AND PATTERNS OF SEXUAL BEHAVIOR IN HUMANS, GENDER ROLE IDENTIFICATION & CURRENT RESEARCH ON THE BIOLOGY OF HOMOSEXUALITY AND BI-SEXUALITY
READING ASSIGNMENT IN JONES: CHAPTERS 5 & 17
READING ASSIGNMENT IN MADER: CHAPTER 7, 11 & 12

- 11 NOV 4 & 6 INTRODUCTION TO PREGNANCY: AN EVERDAY MIRACLE (MOVIE) AND GAMETE TRANSPORT, FERTILIZATION, IMPLANTATION & THE ESTABLISHMENT AND MAINTENANCE OF PREGNANCY
MATERNAL-FETAL RECOGNITION OF PREGNANCY & PLACENTATION
EMBRYONIC DEVELOPMENT, CHANGES IN THE MOTHER DURING PREGNANCY & PREGNANCY COMPLICATIONS
READING ASSIGNMENT IN JONES: CHAPTERS 9, 10, 11 & 12
READING ASSIGNMENT IN MADER: CHAPTER 8

TUESDAY NOV 11 NO LECTURE DUE TO VETERAN'S DAY HOLIDAY

- 12 NOV 13 FETAL DEVELOPMENT, TWINS & MECHANISMS OF SEXUAL DIFFERENTIATION; FETAL CHANGES AT PARTURITION (BIRTH), STAGES OF BIRTH, LACTATION & NEONATAL DEVELOPMENT AND CONTRACEPTION
READING ASSIGNMENT IN JONES: CHAPTERS 9, 10, 11 & 12
READING ASSIGNMENT IN MADER: CHAPTER 8

- 13 NOV 18 CONTRACEPTION & EMERGENCY CONTRACEPTION (PLAN B/THE MORNING AFTER PILL) AND SPONTANEOUS, SURGICAL & CHEMICAL/MEDICAL ABORTION
READING ASSIGNMENT IN JONES: CHAPTERS 14 & 15
READING ASSIGNMENT IN MADER: CHAPTER 9

THURSDAY NOV 20 THIRD LECTURE EXAMINATION

- 14 NOV 25 SEXUALLY TRANSMITTED INFECTIONS (STIs or STDs)
READING ASSIGNMENT IN JONES: CHAPTER 18
READING ASSIGNMENT IN MADER: CHAPTER 10
SECOND LITERATURE SEARCH ASSIGNMENT IS DUE NOV 25
(NO LATE PAPERS ACCEPTED - NO EXCEPTIONS!)

TUESDAY NOV 27 NO LECTURE DUE TO THANKSGIVING DAY HOLIDAY

- 15 DEC 2 & 4 SEXUALLY TRANSMITTED INFECTIONS (STIs or STDs) & AIDS: ACQUIRED IMMUNE DEFICIENCY SYNDROME & HIV: HUMAN IMMUNODEFICIENCY VIRUS
READING ASSIGNMENT IN JONES: CHAPTER 18 (HIV/AIDS)
READING ASSIGNMENT IN MADER: CHAPTER 10
INFERTILITY: CAUSES, TECHNIQUES DESIGNED TO MAXIMIZE CONCEPTION, ISSUES SURROUNDING MULTIPLE CONCEPTIONS & CURRENT AND FUTURE TREATMENTS
READING ASSIGNMENT IN JONES: CHAPTER 16
READING ASSIGNMENT IN MADER: CHAPTER 9

FINAL EXAMINATION: THURSDAY, DECEMBER 11TH, 8:00 AM - 10:00 AM IN EBS 210
GRADE POLICY IS ON THE NEXT PAGE

Be sure to read the handout on Student Learning Outcomes

POLICY ON GRADES

READ THESE PAGES VERY THOROUGHLY AND CAREFULLY!

As we progress through the course and you complete each of the exams, quizzes and assignments, you will accrue points towards a final letter grade for the course. **Specific letter grades will not be given after each lecture exam or quiz, but you will receive a percentile score and I will give you a general idea of where you stand in the course after each lecture exam with reference to the rest of the class.** Generally, I have found that letter grades given for each exam can be misleading for some students. Often students will attempt to "figure out" their grade based simply on the letter grade they received for each exam or assignment (e.g. "I got an A on one test and a C on another test, so I probably have a B"). Since your course grade is based on your cumulative score for all your work, this can be an inaccurate method of determining your true course grade (although you may have a B, your cumulative percentile may be closer to an A or a C). Additionally, by giving letter grades for each exam, the focus tends to be on "getting the grade" instead of learning the subject matter. I will do everything in my power to prevent this learning from becoming an arduous and boring task for you, but it does require studious effort on your part. Thus, your percentile score on each exam is a more accurate depiction of how much of the course material you truly understand and have learned.

It is important that you realize that your grade is the result of your performance on the exams, quizzes, and assignments. Some students may understand the material very well, but perform poorly on any particular exam while other students may not have a complete grasp of the information and perform more adeptly on a particular exam. I can only evaluate you and assign grades based on your "performances" for each of the exams, quizzes, and other assignments. I make every attempt to grade fairly and impartially. Each exam will offer both objective and short answer type questions distributed over the requisite material. Thus, you will not be heavily penalized if your brain happens to be more proficient at answering objective versus short answer or essay-type questions.

Your performance during this course will be evaluated using the following basic criteria:

An **A grade** indicates that the student has performed excellent, exemplary work and completed all course assignments.

A **B grade** indicates that the student has performed well in the course and completed all course assignments.

A **C grade** indicates that the student has performed adequately well in the course and completed all course assignments.

A **D grade** indicates that the student has performed inadequate work, but has shown effort and completed all course assignments.

An **F grade** indicates that the student has performed at an unacceptably low level usually due to a poor attendance record and/or incomplete course assignments.

THE FOLLOWING SCALE WILL BE USED FOR DETERMINING FINAL COURSE GRADES:

Anyone who earns above 90% in this class is guaranteed an A grade. Anyone who earns above 80% in this course is guaranteed at least a B grade. Likewise, any student who earns at least 65% in this course is guaranteed at least a C grade. Do not allow yourself to settle for merely passing this course, each of you deserves the best grade that you can achieve. Come talk to me if you are finding yourself lost, confused, overwhelmed, bored or scared about your grade or any of the information presented at the earliest possible sign that you are having difficulty.

GRADE	TOTAL OVERALL PERCENTAGE	TOTAL POINTS ACCRUED
A	90% - 100%	720 - 800
B	80% - 89%	640 - 719
C	65% - 79%	520 - 639
D	55% - 64%	440 - 519
F	0% - 54%	0 - 439

ATTENDANCE:

ATTENDANCE OF ALL LECTURES AND LAB SESSIONS IS REQUIRED. THERE WILL BE AN ATTENDANCE SHEET WHICH YOU MUST INITIAL DURING EACH LECTURE AND LAB SESSION. IT IS YOUR RESPONSIBILITY TO REMEMBER TO SIGN THE ATTENDANCE SHEET. BE SURE TO INITIAL THE ATTENDANCE. Attendance of lecture or lab is not optional and attendance as well as participation will be the first criteria considered when determining "borderline grades". Arrive on time and I expect you to be fully prepared for lecture and lab. I am aware that parking is a problem, however, "I couldn't find a spot" is no where near a sufficient enough excuse for being late for lecture or for not attending. Don't let yourself miss lecture or lab just because parking is a hassle. Please allow yourself enough time to account for difficulties in parking. You should be prepared to attend all lectures and labs. In my experience, those students who do not attend class are the students who do not fulfill their potential regardless of their level of understanding. Medical, legal and other scheduled appointments should not be scheduled during normal class times and these will not be considered as excused absences. Medical or personal emergencies will require a written notice of the specific problem signed by an appropriately qualified individual.

CHEATING:

Absolutely no form of academic dishonesty or plagiarism will be tolerated. It is unethical, unfair, and a violation of your own intelligence as well as being lame, slimy, vile, and pathetic. Anyone caught cheating will be subjected to the most severe academic penalties. More than ever, most academic institutions and professors are acutely aware that this is a serious and unfortunately all too common issue.

MAKEUP EXAMS:

There will be no makeup exams except in the case of death/illness of a family member or death/illness of you. If you are sick, a written medical excuse will be required. It is your responsibility to make sure that you have no conflicts in your exam schedule. The final exam time is set and the lecture exams are all scheduled during regular lecture hours. In the case of some unforeseen personal crisis, a makeup will only be granted with my consent.

EXTRA CREDIT ASSIGNMENTS:

Put simply, there are not any. DO THE WORK! Stay focused and put an effort into your studies early on and you won't care about extra credit. If you are having trouble in the course, you certainly don't need more to study - which is what extra credit would entail!

WITHDRAWAL AND YOUR CONCERNS ABOUT YOUR GRADE:

September 6th is the last day to drop the course and receive a refund. The last day to withdraw from the course (without a refund) is October 24th. September 26th is the last day to petition for Pass/No Pass status. IF YOU ARE CONCERNED ABOUT YOUR GRADE, PLEASE COME TALK TO ME AT THE EARLIEST POSSIBLE TIME SO THAT WE CAN DISCUSS YOUR OPTIONS. It is to your great advantage to discuss with me (I don't bite!) any problems you are having early in the semester so that I can try and assist you as much as possible. **If you do decide to withdraw, please tell me so that I will be aware of what happened to you and remember IT IS YOUR PERSONAL RESPONSIBILITY TO OFFICIALLY WITHDRAW SO THAT YOUR TRANSCRIPT RECORD WILL NOT BE ADVERSELY AFFECTED.**

DSPTS STUDENTS:

Students with disabilities who are requesting accommodations should use the following SBCC procedure: contact the DSPTS office in SS160 (x2364), present documentation of disability for review by a disabilities specialist, discuss options for support through DSPTS, and present a signed DSPTS authorization for accommodation to your instructor.

PERSONAL DISCUSSIONS IN LECTURE:

When you ask me questions, I will listen intently and provide you with the best possible answer that I can. I expect the same level of respect from you. I encourage you to discuss the material with your classmates during lab and outside of class, but please be courteous AND DO NOT TALK AMONGST YOURSELVES WHILE I AM LECTURING AS IT IS VERY DISTURBING TO THE STUDENTS AROUND YOU (at least have the decency to only "pass notes"). You will not text message on your cell phone during lecture.

I WELCOME AND ENCOURAGE YOU TO ASK ME QUESTIONS DURING LECTURE