
Calumet College



of Saint Joseph

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Calumet College of St. Joseph is a Catholic institution of higher learning dedicated to the academic, spiritual and ethical development of undergraduate and graduate students. Informed by the values of its founding religious community, the Missionaries of the Precious Blood (C.P.P.S.), the College promotes the inherent dignity of all people, social justice, an ethic of service, student empowerment, opportunity, and lifelong learning.

COURSE SYLLABUS, Fall 2018**Course: BIOL 372 Biomedical Health Research Literacy I****Instructor Information:**

Instructor Name	Dr. Edward Draper
Office Number:	514
Phone Number:	219-473-4268
Email:	edraper@ccsj.edu
Office Hours:	Monday 10:15am-11:15am, Tuesday & Thursday 9:00am-10:00am
Instructor Background:	B.S. in Biology from Loyola University Chicago. M.S. in Biology from Purdue University. Ph.D. in Biology from University of Illinois Chicago. My research focuses on using the yeast, <i>Saccharomyces cerevisiae</i> , as a model system to study cellular biology.

Course Information:

Course Time:	arranged
Classroom:	TBD
Prerequisites:	C or better in all Science and Math courses and Junior Standing
Required Books and Materials:	Course materials will be provided by instructor
Learning Outcomes/ Competencies: Students in this course will: <ol style="list-style-type: none">1. Scientific Knowledge and Critical Thinking:<ul style="list-style-type: none">• Students will demonstrate substantial and up-to-date core knowledge of broad areas in basic biomedical, translational, or clinical research.• Students will demonstrate the ability to accurately and critically evaluate their own scientific work and the work of others.	

2. Research Skills and Problem Solving Ability:
 - Students will demonstrate advanced understanding of a range of technical and conceptual approaches used in biomedical research.
 - Students can design, carry out, and interpret research projects that generate new knowledge that advances the biomedical sciences and human health.
3. Specific Expertise:
 - Students can articulate the significance of their own work to their chosen research area in both historical and forward-looking contexts.
 - Students will demonstrate mastery of a range of technical and conceptual approaches used in their selected research area.
4. Communication:
 - Students will demonstrate the oral, written and media communication skills required to be effective communicants, teacher
5. Ethics and Advocacy:
 - Students will apply highest standards of ethics to their research (data management, research subjects, stewardship of research funds)
 - Students will improve their confidence and interactions with colleagues and the public.
 - Students will be able to advocate for the role of science in medicine and society

The course also meets the following General Education Program objectives:

- Students will read analytically, synthetically, and critically in a variety of genres.
- Students will write in a variety of forms using valid logic, persuasive rhetoric, and correct grammar, usage, and punctuation.
- Students will represent, apply, analyze, and evaluate relevant qualitative and quantitative mathematical and scientific evidence (i.e. equations, graphs, diagrams, tables, words) to support or refute an argument.
- Students will appreciate, create, and critique the persuasive power of art and media.
- Students will be able to apply ethical standards to social issues and analyze their own core beliefs and the origin of these beliefs.

Course Description:

A 3-hour course. To receive academic credit for an undergraduate research experience students must complete a project proposal endorsed by the Instructor. The application will contain an overview of the project, specific goals, deadlines for completion of the project, and specific project outcomes that will be evaluated to determine the final grade. All projects must meet the following criteria: a) spending an average of 6 hour per week working on the project; b) writing a scientific paper summarizing the results of the study; c) preparing an electronic poster of the project results; d) maintaining a lab notebook, and e) presenting the results of the project to an audience.

Learning Strategies:

Active learning, BlackBoard, group discussions, team projects, collaborative learning, laboratory exercises, demonstrations.

Experiential Learning Opportunities:

Laboratory experience is essential for a fundamental understanding of the scientific method. This course has a required laboratory portion that provides students with experiential learning through experimental design, hypothesis development, data interpretation, and communication of results through laboratory reports.

Assessments:		
Weekly reports	Students will submit 13 weekly reports, which are to be turned in by 12:00pm on the dates indicated below.	20 points each
Journal article presentation	Each student will present 2 journal articles to the class.	50 points each
Discussion	Students are expected to read all assigned material and participate in the discussion of each article. Discussion points will be awarded on 6 different occasions.	10 points each
Participation	Students are expected to dedicate at least 6 hours per week to this course. Participation will be monitored throughout the semester.	200 points
Lab notebook	Students are expected to maintain a lab notebook throughout the semester. The lab notebook will be spot checked twice during the semester.	50 points each
Total		720 points
Grading Scale (points) A: 644-720 B+: 630-643 B: 572-629	C+: 558-571 C: 500-557 D+: 486-499	D: 428-485 F: 427 & under

Course Schedule:

Week of	Class Discussion/Activities	
Aug. 27	Organizational meeting.	No weekly report for this week
Sept. 3	TBD	Weekly report due by noon on 9/10
Sept. 10	TBD	Weekly report due by noon on 9/17
Sept. 17	TBD	Weekly report due by noon on 9/24
Sept. 24	TBD	Weekly report due by noon on 10/1
Oct. 1	TBD	Weekly report due by noon on 10/8
Oct. 8	TBD	Weekly report due by noon on 10/15
Oct. 15	TBD and Jacob presentation 1	Weekly report due by noon on 10/22
Oct. 22	TBD and Kalyn presentation 1	Weekly report due by noon on 10/29
Oct. 29	TBD and Duneya presentation 1	Weekly report due by noon on 11/5
Nov. 5	TBD and Kalyn presentation 2	Weekly report due by noon on 11/12
Nov. 12	TBD and Jacob presentation 2	Weekly report due by noon on 11/26
Nov. 19	No activity this week	No weekly report for this week
Nov. 26	TBD and Duneya presentation 2	Weekly report due by noon on 12/3
Dec. 3	TBD	Weekly report due by noon on 12/10
Dec. 10	No activity this week	No weekly report for this week

I reserve the right to change this schedule to meet the needs of the class.

Responsibilities	
Attending Class	<p>You cannot succeed in this class if you do not attend. We believe that intellectual growth and success in higher education occur through interaction in the classroom and laboratories. Being absent doesn't excuse you from doing class work; you have more responsibilities to keep up and meet the objectives of this course.</p> <p>Attendance Attendance is counted as being present from the first 10 minutes of class until the end of lecture/lab. Anyone missing after the first 10 minutes of class will be marked late. If you are still missing after the first 15 minutes of class, you will be marked absent unless a written excuse is provided within 24 hours of the occurrence. Similarly, anyone leaving early without a written excuse will be counted as absent.</p> <p>General Absences You are responsible for all material presented in class and all in-class announcements and assignments. If for whatever reason you have to miss class, please approach your fellow students for the notes you missed, and take advantage of the class materials that will be posted on Blackboard http://class.ccsj.edu</p> <p>ALL planned and unplanned absences must be communicated to your instructor via email (Subject: Last name, First name, "BIOL 115A Absent", Date) with a brief explanation.</p> <p>Intellectual growth and success in college is reinforced through interaction in the classroom. Students reach personal goals and course outcomes through regular and prompt attendance. Therefore, three (3) unexcused absences will result in an administrative withdrawal from the course. Furthermore, excessive tardiness (every 2 late arrivals) will result in 1 absence. The student may be subjected to a grade of F or FW per the policy stated under the Withdrawal from Classes section on this syllabus.</p> <p>Absence due to college events We do not want to penalize students for participating in college-sponsored events. When you miss class because of a college event, you must give notice of your absence 24 hours in advance according to the communication guidelines above, and you are responsible for all missed work. Being absent doesn't excuse you from doing class work; you have more responsibilities to keep up and meet the objectives of this course.</p>
Turning In Your Work	<p>You cannot succeed in this class if you do not turn in all your work when due. Homework will not be accepted after the due date. Extension requests for extenuating circumstances can be submitted via email to the instructor. Decisions on make-up work are left to the discretion of the instructor.</p>

CCSJ Student Honor Code	<p>This course asks students to reaffirm the CCSJ Student Honor Code:</p> <p>I, as a student member of the Calumet College academic community, in accordance with the college's mission and in a spirit of mutual respect, pledge to:</p> <ul style="list-style-type: none"> • Continuously embrace honesty and curiosity in the pursuit of my educational goals; • Avoid all behaviors that could impede or distract from the academic progress of myself or other members of my community; • Do my own work with integrity at all times, in accordance with syllabi, and without giving or receiving inappropriate aid; • Do my utmost to act with commitment, inside and outside of class, to the goals and mission of Calumet College of St. Joseph.
Using Electronic Devices	<p>Electronic devices can only be used in class for course-related purposes. If you text or access the Internet for other purposes, you may be asked to leave, in which case you will be marked absent.</p>
Participating in Class	<p>You must be on time, stay for the whole class and speak up in a way that shows you have done the assigned reading. If you are not prepared for class, you may be asked to leave, in which case you will be marked absent.</p>
Doing Your Own Work	<p>If you turn in work that is not your own, you will be subject to judicial review by the Faculty-Student Grievance Committee. These procedures can be found in the Student Planner. The maximum penalty for any form of academic dishonesty is dismissal from the College.</p> <p>Using standard citation guidelines to document sources avoids plagiarism. You'll find guides to the major citation methods at the CCSJ Specker Library Web page at http://www.ccsj.edu/library/subjectsplus/subjects/guide.php?subject=cite</p> <p>PLEASE NOTE: All papers may be electronically checked for plagiarism.</p>
Sharing Your Class Experience	<p>At the end of the term, you will have the opportunity to evaluate your classroom experience. These confidential surveys are essential to our ongoing efforts to ensure that you have a great experience that leaves you well prepared for your future. Take the time to complete your course evaluations – we value your feedback!</p>
Withdrawing from Class	<p>After the last day established for class changes has passed (see the College calendar in the CCSJ Course Catalog), you may withdraw from a course by following the policy outlined in the Course Catalog.</p>

Resources	
CCSJ Book Rental Program	The CCSJ Book Program ensures that everyone has the right course materials on the first day of class to be successful. You pay a book rental fee each semester, and in return, receive all the materials for all your classes prior to the beginning of classes. At the end of the semester, simply return the books. For traditional students, the Book Rental Program is conveniently located in the library, where students can pick up and return their books. For students in accelerated programs and graduate programs, books will be delivered to their homes and they can return them by mail. For more information, see http://www.ccsj.edu/bookstore . All books must be returned at the end of the semester or you will incur additional fees, which will be charged to your student account.
Student Success Center:	The Student Success Center provides faculty tutors at all levels to help you master specific subjects and develop effective learning skills. It is open to all students at no charge. You can contact the Student Success Center at 219 473-4287 or stop by the Library.
Disability Services:	Disability Services strives to meet the needs of all students by providing academic services in accordance with Americans with Disabilities Act (ADA) guidelines. If you believe that you need a “reasonable accommodation” because of a disability, contact the Disability Services Coordinator at 219-473-4349.
Student Assistance Program	Through a partnership with Crown Counseling , Calumet College of St. Joseph provides a free Student Assistance Program (SAP) to current students. The SAP is a confidential counseling service provided to students for personal and school concerns which may be interfering with academic performance and/or quality of life. The SAP counselor is available on campus once a week and off-site at the Crown Counseling offices in Crown Point or Hammond. For more information, contact Kerry Knowles SAP Counselor , at 219-663-6353 (office), 219-413-3702 (cell), or kerryk@crowncounseling.org .
CCSJ Alerts:	Calumet College of St. Joseph’s emergency communications system will tell you about emergencies, weather-related closings, or other incidents via text, email, or voice messages. Please sign up for this important service annually on the College’s website at: http://www.ccsj.edu/alerts/index.html .