<table>
<thead>
<tr>
<th>Lecture</th>
<th>Date</th>
<th>Title</th>
</tr>
</thead>
</table>
| 1      | Jan 16<sup>th</sup>-Tues | Tools of Cell Biology  
Overview, Methods, and Experimental strategies.                        |
| 2      | Jan 18<sup>th</sup>, Thurs | Intracellular protein trafficking  
Membrane structure & Pulse chase experiments                          |
| 3      | Jan 23, Tues | Signal hypothesis: Protein Translocation into ER                                           |
| 4      | Jan 25, Thurs | Protein targeting II & peroxisomes                                                       |
| 5      | Jan 30<sup>th</sup>, Tues | **QUIZ #1—10 pts**Core glycosylation                                                     |
| 6      | Feb 1st, Thurs | ER quality control & the unfolded protein response                                         |
| 7      | Feb 6<sup>th</sup>-Tues | ER to golgi & retrieval mechanisms with KDEL                                              |
| 8      | Feb 8<sup>th</sup>, Thurs | Endocytosis and high cholesterol I                                                        |
| 9      | Feb 13<sup>th</sup>, Tues | Cholesterol regulation II                                                                |
| 10     | Feb 15<sup>th</sup>, Thurs | **QUIZ #2--- 20 pts**The cellular powerhouse: Mitochondrial cell biology and disease.       |
| 11     | Feb 20<sup>th</sup>, Tues | **EXAM#1---open book open note.**                                                          |
| 12     | Feb 22nd, Thurs | Holding it all together: Cell Junctions                                                   |
| 13     | Feb 27<sup>th</sup>-Tues | Intermediate Filaments: Structure & dynamics                                               |
| 14     | March 1st-Thurs | Intermediate filaments & Disease.                                                          |
| 15     | March 6th-Tues | Polymer assembly and disassembly: a comparison of three polymer systems                   |
| 16     | March 8<sup>th</sup>, Thurs | Actin and motility –  
(Muscle contraction and myosin motors – assigned reading)                     |
| 17     | March 13<sup>th</sup>-Tues | **QUIZ #3--- 30 pts**Myosin and motility                                                  |
| 18     | March 15<sup>th</sup>-Thurs | Myosin regulation, melanocytes, & cargo attachment                                        |
| 19     | Mar 19<sup>th</sup>-Mar 23th | Spring Break!!  
Enjoy the sunshine!!                                                     |
| 20     | March 27<sup>th</sup>-Tues | Microtubules I  
Structure, assembly, dynamics, and length regulation                                 |
| 21     | March 29<sup>th</sup>-Thurs | Microtubule-dependent motor proteins:  
Dynein & Kinesins                                                                         |
<p>| 22     | April 3rd Tues | Axonal Transport &amp; motor proteins                                                         |</p>
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 5th</td>
<td>Mitosis I- Mitotic Spindle Structure &amp; centrosomes</td>
</tr>
<tr>
<td>April 10th</td>
<td>Writing Assignments due for Graduate Students</td>
</tr>
<tr>
<td>April 10th</td>
<td>QUIZ #4—40 pts</td>
</tr>
<tr>
<td>April 12th</td>
<td>EXAM #2—open book open note—</td>
</tr>
<tr>
<td>April 17th</td>
<td>The Spindle Assembly checkpoint and the proteasome</td>
</tr>
<tr>
<td>April 19th</td>
<td>Spindle assembly checkpoint--the experiments</td>
</tr>
<tr>
<td>April 24th</td>
<td>Cell cycle: CDK regulation &amp; cyclin degradation</td>
</tr>
<tr>
<td>April 26th</td>
<td>Apoptosis I: A struggle between life and death</td>
</tr>
<tr>
<td>May 1st</td>
<td>Apoptosis II: a long slow death--the experiments</td>
</tr>
<tr>
<td>May 3rd</td>
<td>Cell cycle and Cancer: Cell cycle &amp; p53, the tumor suppressor -Last day of class--You’ve learned a lot!!</td>
</tr>
<tr>
<td>May 7th-11th</td>
<td>Final EXAMs—Exam #3</td>
</tr>
</tbody>
</table>

**INSTRUCTOR AND COURSE DIRECTOR:**
Rita K. Miller, Ph.D.
Email: rita.miller@okstate.edu
Class meets 9:00am-10:15pm in room 348 of Noble Research Center
Office hours: 1:00p to 2:00pm, CST in OK. Tuesday & Thursday. I am available via Skype during office hours by appointment. Email me to set up a Skype Appointment. Otherwise, please email for an appointment.
Office: 248 Noble Research Center

**Inquiries:**
Email: I will reply to email inquiries within 48 hours from Monday through Friday at 5pm -- Central Standard Time (CST), Oklahoma time. On Saturday and Sunday, I will reply as soon as I am able. You are free to email me on the weekend, but I may not be able to reply until Monday morning, depending on my weekend commitments. If you are able to attend the scheduled office hours, No worries! Please email me for an appointment at another time. It may work best if you suggest three possible times, if none of these work for me, then I will suggest several alternative times for you to choose from. Please put BIOC4523-O in the subject line of your email, so that I can give your email the attention it deserves.

Skype is an effective method of long distance communication. I encourage you to set up a Skype account now so that you may visit me by Skype meetings/office hours. My Skype user name is ProfessorRMiller. This requires that your computer have a built in webcam or that you have an external webcam. These are worth the investment. I am happy to have Skype conversations to answers questions.
A guide for navigating this course:
The basic layout of this course is found on the D2L website at Oklahoma State University. The URL is: https://online.okstate.edu/d2l/home. **After you login using your OKEY password and email address,** this BIOC4523 course should be listed under the MY COURSES banner. Click on **BIOC4523- spring Semester.** Then Click on the Course Home pull down menu.

**Lectures notes** are posted under the Content menu for this BIOC4523 course. There are **30 lectures** for this course. (Two of the lectures will be taken up by “in class” exams.) The lecture slides are posted as a PDF file on the D2L website. The course is designed for you to download the lecture notes **before** you come and participate at the lectures. It is highly recommended that you highlight and take notes on the Handouts **while listening** to the lectures.

**Assigned reading**— Assigned research papers and reviews are posted as PDFs under the corresponding lecture, which is found under the “content” pull-down menu. Assigned textbook reading and other assigned reading are listed on the second slide of the Lecture Handouts.

**Grades**—will be posted on the Grades pull down menu.

**Quizzes**—Homework and Quizzes will be posted under the Quizzes pull-down menu.

**Dropbox**—will be where you upload your assignments, and term papers will be delivered to the Professor.

**Discussion**— The Discussion menu will be used to answer questions / review sessions prior to exams.

**BIOC 4523, Schedule Spring, 2018**
**REQUIRED TEXT:**

**RECOMMENDED AND ASSIGNED READINGS**
Both primary scientific literature and review articles will be assigned as reading. References will be provided for each lecture topic. Additional references for each lecture topic will be provided on the powerpoint slides handouts. Each list will contain articles discussed in detail in class, as well as those useful for background or further reading. Because research articles are sometimes more detailed than the points we wish to convey in lecture, papers should previewed **before** the lecture and reviewed again carefully **after** they are discussed in lecture.

**Criteria for student participation and grading:**
**COURSE GRADE:**
**Exams:** All exams are open note, open book. But **no** phones, tablets, computers, or electronic devices are allowed in exams.

“In class” Quizzes are CLOSED note, CLOSED book.

**Homework/ Pop quizzes.** Pop quizzes may be given at the end of class periods, as “pop quizzes” or “clicker quizzes” at the instructors discretion. This pop quiz schedule is designed to provide you with an incentive for “keeping up” and attending scheduled classes.
Homework is open lecture note. There will be occasional homework assigned. Homework is for your benefit. Homework and Pop quizzes and will be worth 150 points. There will be four closed note in-class quizzes (100 points total) AND three examinations (100 points each x 3 = 300 total points). Two of these are the hourlie examinations and the third is the comprehensive final. The combined average of these scores will be used to compute the final grade. The examinations will cover the lecture material and the readings discussed in detail in class. If for any reason you miss an hourly exam, the final will count double. If you feel a mistake has been made in grading your exam, then notify the instructor with a written note no later than one week after the exam has been reviewed. Exam grades will not be changed after this period. No 'make-up' exams will be given.

Undergraduates: Exams and quizzes and homework will constitute the entire grade and be worth 550 points.
Graduate students: Together the exams and quizzes and homework will constitute 550 points of the final grade. The writing assignment is 200 points of the final grade, for 750 points total.

Anticipated scale for student participation and grading:
\[ \geq 85\% = A \]
\[ \geq 75\% = B \]
\[ \geq 65\% = C \]
\[ \geq 60\% = D \]
\[ \geq 50\% = F \]

Academic Honesty:
Writing assignments will be the original work of the student and exclusively prepared for this class, unless express written and prior permission is granted by the instructor. Accurate citations and referencing will count towards one’s final grade. One is expected to write using one’s original words. "Cutting and Pasting" sections of your writing assignment from published work will result in disciplinary action.

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript (F!), and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, academicintegrity.okstate.edu.

OSU’s Syllabus attachment for Spring 2018 also has important information. It is found in lecture #1 uploads on D2L. It is also attached to this document.
YOUR SUCCESS AS A STUDENT IS OUR TOP PRIORITY.

THIS INFORMATION IS PROVIDED TO ANSWER QUESTIONS MOST OFTEN ASKED BY STUDENTS.

### IMPORTANT DATES

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day to add a class (without instructor permission)</td>
<td>1/23/2018</td>
</tr>
<tr>
<td>Last day to drop a course with no grade and 100% refund</td>
<td>1/23/2018</td>
</tr>
<tr>
<td>Last day to add a class (requires instructor &amp; advisor</td>
<td>1/26/2018</td>
</tr>
<tr>
<td>permission)</td>
<td></td>
</tr>
<tr>
<td>Last day to drop a course or withdraw from the University</td>
<td>1/26/2018</td>
</tr>
<tr>
<td>with an automatic “W” and receive a partial refund</td>
<td></td>
</tr>
<tr>
<td>(requires advisor signature)</td>
<td></td>
</tr>
<tr>
<td>Last day to post 6 week grades</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Last day to file diploma application (for name to appear</td>
<td>4/2/2018</td>
</tr>
<tr>
<td>in Fall Commencement program</td>
<td></td>
</tr>
<tr>
<td>Last day to drop a class or withdraw from the University</td>
<td>4/13/2018</td>
</tr>
<tr>
<td>with an automatic “W”</td>
<td></td>
</tr>
<tr>
<td>Last day to withdraw from all OSU classes with an assigned</td>
<td>4/27/2018</td>
</tr>
<tr>
<td>grade of “W” or “F”</td>
<td></td>
</tr>
<tr>
<td>Pre-Finals Week</td>
<td>4/30/2018-5/4/2018</td>
</tr>
<tr>
<td>Final examinations</td>
<td>5/7/2018-5/11/2018</td>
</tr>
<tr>
<td>Final grades due from faculty by noon</td>
<td>5/16/2018</td>
</tr>
</tbody>
</table>

Note: Outreach, Internet, and short courses have unique drop/add and refund deadlines; lookup the specific deadlines for these courses on the Short, Internet, and Outreach Class Schedules page of the Registrar’s website [http://registrar.okstate.edu/SIO-Schedule](http://registrar.okstate.edu/SIO-Schedule).

### Fall Semester Holidays

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Holiday</td>
<td>1/15/2018</td>
</tr>
<tr>
<td>Students’ Spring Break</td>
<td>3/19/2018-3/23/2018</td>
</tr>
</tbody>
</table>

### DROPPING A COURSE AND WITHDRAWING FROM THE UNIVERSITY

Students often confuse these terms.

**Dropping a Course** (or courses) may occur during the first twelve weeks of the semester. This means, however, that you are still enrolled in at least one other OSU course. Exceptions to the deadlines above may only be considered by petition due to documented extraordinary circumstances and committee approval. The Retroactive Drop/Withdraw Petition and the Petition for a Refund of Tuition and Fees forms are available on the Registrar’s website [http://registrar.okstate.edu/Forms](http://registrar.okstate.edu/Forms).

**Withdrawing** from the university means dropping all courses and you are no longer enrolled for the current semester. This may occur until the Friday before pre-finals week. The withdrawal process is initiated with your academic advisor. For additional information and dates, go to [http://academicaffairs.okstate.edu/content/adding-dropping-and-withdrawing-courses](http://academicaffairs.okstate.edu/content/adding-dropping-and-withdrawing-courses).

### ALERTS AND RESCHEDULING

If the OSU campus officially closes due to inclement weather or other emergencies, alerts are provided to local news media and posted on the OSU website. Missed exams, classes, or assignments may be rescheduled at times outside the normal meeting schedule. If valid, documented circumstances prohibit students from attending the rescheduled classes, instructors should provide reasonable alternative means for makeup.

### SEEK ANSWERS TO YOUR QUESTIONS

The OSU faculty and staff want you to be successful in your educational pursuits. If you have questions or concerns, seek help EARLY. We are here to assist you.

### ACADEMIC INTEGRITY

101 Whitehurst/405-744-5627 [http://academicintegrity.okstate.edu](http://academicintegrity.okstate.edu)

OSU is committed to maintaining the highest standards of integrity and ethical conduct. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and altering academic records) will result in an official academic sanction. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge.

### COPYRIGHT & FAIR USE POLICY OF COURSE MATERIALS

Course materials may not be published, leased, sold to others, or used for any purpose other than appropriate OSU-related individual or group study without the written permission of the faculty member in charge of the course and other copyright holders. This paragraph grants you a limited license giving you access to materials for this course, including PowerPoint slides, audio/video recordings, written, or other materials, for appropriate OSU-related educational use only. Lectures should not be recorded without permission from the faculty member and must not
be further disseminated or shared.

**CLASS ATTENDANCE**
Class attendance is a critical component of learning; therefore, you are expected to attend and participate fully in all scheduled class meetings. Many instructors consider attendance so essential that your grade may be affected by your absence. **SOME DEPARTMENTS AND PROFESSORS HAVE MANDATORY ATTENDANCE POLICIES.** If no written attendance policy is provided before the last day to add a class without instructor permission, no penalty may be assessed for class absences although you may not be permitted to make up certain in-class activities. If you are required to participate in official university-sponsored activities or military training, you should receive an excused absence unless the written course attendance policy indicates otherwise. If you will be absent from class for sponsored activities, you must provide prior notification of the planned absence to the instructor. You may be required to submit assignments or take examinations before the planned absence.

**PRE-FINALS WEEK POLICY**
Final examinations are scheduled at the end of each semester and are preceded by pre-finals week, which begins seven days prior to the first day of finals. During pre-finals week, all normal class activities will continue; however, no assignment, test, or examination accounting for more than 5% of the course grade may be given; and no activity or field trip may be scheduled that conflicts with another class. This excludes makeup and laboratory examinations, out-of-class assignments (or projects) made prior to pre-finals week and independent study courses. No student or campus organization may hold meetings, banquets, receptions, or may sponsor or participate in any activity, program, or related function that requires student participation. For additional information, contact the Office of Academic Affairs, 405-744-5627, 101 Whitehurst.

**FINAL EXAM OVERLOAD POLICY**
In the event you have three or more final exams scheduled for a single day, you are entitled to arrange with the instructor of the highest numbered course (4 digit course number) or two highest, if you have four finals on one day, to re-schedule that examination(s) at a time and place of mutual convenience during final exam week. If the final exam overload includes a common final exam, the common final exam is excluded from rescheduling unless multiple common exams are scheduled at the same time. You should submit this request in writing, with a copy of your class schedule, at least two weeks prior to the beginning of final exam week. The instructor has one week prior to the beginning of final exam week to arrange a mutually convenient time and place for administration of the final exam. After one week, if an agreement cannot be reached, take the request to the department head.

**INFORMATION TECHNOLOGY**
Student Email - OSU uses your OKSTATE.EDU email address as a primary form of communication. Students are expected to check their OSU email on a frequent and consistent basis to remain informed of their official university business. If you do not use the OSU email system you must redirect your okstate.edu email using the Orange-Key System (www.okey.okstate.edu). Failure to maintain an accurate email address may result in missed or lost university communications. For email assistance contact the IT Helpdesk at 405-744-HELP (4357).

Computer Labs - A complete description of computer labs and hours of operations are available at their website: [https://it.sharepoint.okstate.edu/TechnologySupport/DeskSide/default.aspx](https://it.sharepoint.okstate.edu/TechnologySupport/DeskSide/default.aspx). Lab information is also available by calling the Information Technology Help Desk at 405-744-HELP (4357).

**EQUAL OPPORTUNITY**
408 Whitehurst/405-744-9153/https://1is2many.okstate.edu/
OSU is committed to maintaining a learning environment that is free from discriminatory conduct based on race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. OSU does not discriminate on the basis of sex in its educational programs and activities. Examples of sexual misconduct and/or sex discrimination include: sexual violence, sexual harassment, sexual assault, domestic and intimate partner violence, stalking, or gender-based discrimination. OSU encourages any student who thinks that he or she may have been a victim of sexual misconduct or sexual discrimination to immediately report the incident to the Title IX Coordinator (405-744-9153) or Deputy Title IX Coordinator (405-744-5470). Students may also report incidents of sexual misconduct or sex discrimination to a faculty or staff member, who is then required by federal law (Title IX) to notify the Title IX or Deputy Title IX Coordinator. If a reporting student would like to keep the details confidential, the student may speak with staff in the Student Counseling Center (405-744-5472) or one of the University’s Sexual Assault Victim Advocates (Mon-Fri 8 AM-5 PM, 405-564-2129 or 24 Hour Help Line 405-624-3020).

**STUDENT DISABILITY SERVICES**
315 Student Union/405-744-7116/http://sds.okstate.edu/
According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process to verify the existence of a qualified disability and identify reasonable accommodations.

**STUDENT CONDUCT EDUCATION AND ADMINISTRATION**
328 Student Union/405-744-5470/http://studentconduct.okstate.edu/
By enrolling at Oklahoma State University, you accept responsibility for complying with all University policies and contracts, and for local, state and federal laws on- or off-campus that relate to the University’s mission. The Student Code of Conduct educates students about their civic and social responsibilities including policies and procedures involving student misconduct.
In general, the University expects students to aspire to follow and promote the Cowboy Community Standards or integrity, community, social justice, respect, and responsibility.

**EDMON LOW LIBRARY HOURS**

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
<th>Website</th>
<th>Phone numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>Opens at 9:00 AM</td>
<td><a href="http://www.library.okstate.edu">www.library.okstate.edu</a></td>
<td>405-744-9775 or 405-744-9741 Text 405-592-4128</td>
</tr>
<tr>
<td>Monday-Thursday</td>
<td>Open 24 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>Closes at 10:00 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday</td>
<td>9:00 AM-10:00 PM</td>
<td></td>
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</tbody>
</table>

*For holiday and intersession hours, check [http://library.okstate.edu/about/hours](http://library.okstate.edu/about/hours)*

*Contact the following for information on hours of operation:
- Architecture Library 405-744-6047
- Curriculum Materials Library 405-744-6310
- Veterinary Medicine Library 405-744-6655

**WHERE TO GO FOR HELP**

**Academic Related Services**

**Instructor** - If you have questions regarding your class, talk to your instructor. Faculty members usually include their office hours and/or phone number in the class syllabus. If you cannot locate this information, set a time to meet with your instructor by speaking with him/her prior to or immediately following your class session or check with the departmental office on when the instructor may be available.

**Academic Advisor** - All students will benefit by conferring with an advisor on a regular basis. If you do not know your advisor or would like to learn more, talk to the Student Academic Services Director for your college.

**Bursar**

113 Student Union/405-744-5993

[http://bursar.okstate.edu/](http://bursar.okstate.edu/)

The Bursar Office bills and collects tuition, fees, campus housing, and other university related charges. The Bursar Office also processes and disburses all federal and campus-based funds to students' bursar accounts and refunds any overpayments on students' bursar accounts.

**Career Services**

360 Student Union/405-744-5253

[http://hireosugrads.com](http://hireosugrads.com)

Locate your College’s Career Consultant on the Career Services website. Use [http://hireosugrads.com](http://hireosugrads.com) to search for part-time jobs.

**Concurrent Student Services and Advising**

University College/040 Student Union/405-744-1389

[http://universitycollege.okstate.edu/concurrent/index.html](http://universitycollege.okstate.edu/concurrent/index.html)

Contact Brett Rowh to find out about academic services for concurrent students or to schedule your next advising appointment.

**Foreign Language Placement Test**

206 Gunderson Hall/405-744-9547

[http://languages.okstate.edu/](http://languages.okstate.edu/)

Students with prior foreign language experience in French, German, or Spanish who take the placement exam and then score a ‘B’ or higher in a more advanced class, will get up to 6 credit hours for the classes below it. Schedule your free test by emailing Nick Howland at nick.howland@okstate.edu.

**Multicultural Affairs**

240 Student Union/405-744-5481

[http://oma.okstate.edu/](http://oma.okstate.edu/)

Academic, career, and personal success programs are available. Student organizations representing diverse communities and annual events are offered.

**Pre-Professional Student Services**

University College/040 Student Union/405-744-1389

[http://universitycollege.okstate.edu/](http://universitycollege.okstate.edu/)

Pre-professional services for students from any major on campus, including coordination of contacts with health care professional schools and student interview processes.

**Registrar**

322 Student Union/405-744-6876

[http://registrar.okstate.edu/](http://registrar.okstate.edu/)

The Office of the Registrar provides services related to the creation and maintenance of student academic records. We are here to assist students with enrollment, official transcript requests, degree and enrollment verification, updating personal information in the Student Information System, graduation, and other services.
Scholarships & Financial Aid
119 Student Union/405-744-6604
http://financialaid.okstate.edu

Over 80 percent of Oklahoma State University students received scholarships, grants, work, and low-interest loans totaling over $320 million last year. Contact the Office of Scholarships & Financial Aid to apply for financial aid or to meet with a financial aid counselor.

Transfer Students Services
University College/040 Student Union/405-744-1389
http://universitycollege.okstate.edu/transfer/index.html

This office provides undergraduate transfer students with a seamless transition to OSU by collaborating with various departments on campus, including the Office of Undergraduate Admissions, the LASSO Center, the Office of the Registrar, and Financial Aid.

University Assessment and Testing
107 University Assessment and Testing Building/405-744-5958
http://uat.okstate.edu/

Campus and national tests as well as testing accommodations are provided.

Veteran Benefit Services
322 Student Union/405-744-6343
http://registrar.okstate.edu/Veteran-Benefit-Services

This office provides information and assistance in completing the appropriate forms to apply for educational benefits through the U.S. Department of Veterans Affairs and through the State of Oklahoma.

Veteran Student Academic Services
University College/040 Student Union/405-744-1389
http://universitycollege.okstate.edu/veteran/index.html

This office works with veteran and military-affiliated students to aid in their transition from military service to successful careers by ensuring they succeed academically through coordination of support services from both on- and off-campus entities.

Health Related Services

Counseling Psychology Clinic
107 Public Information Office/405-744-6980
https://education.okstate.edu/cpsy/clinic

Faculty and graduate students offer high quality and cost efficient psychological and mental health services to students Monday through Friday.

University Counseling Services
320 Student Union/405-744-5458
http://www.okstate.edu/ucs/

Services include personal counseling, the Alcohol & Substance Abuse Center, and stress management through the Reboot Center.

University Health Services
1202 W. Farm Road/405-744-7665
http://uhs.okstate.edu/

An allergy clinic, lab services, x-ray, travel clinic, women’s clinic and pharmacy are among the services offered at this campus outpatient medical clinic.

Wellness Department
405-744-5510
http://wellness.okstate.edu/

Intramurals, group fitness and sports clubs are among the many programs and services available through the Wellness Department.

Campus Life Related Services

Fraternity & Sorority Affairs
211J Student Union/405-744-5490
http://gogreek.okstate.edu/

For questions and comments about fraternity and sorority organizations, contact Ival Gregory at ival.gregory@okstate.edu.

Housing & Residential Life
100 Iba Hall/405-744-5592
http://reslife.okstate.edu

For questions and comments about housing and residential life, contact the Housing administration office.

Leadership and Campus Life
211 Student Union/405-744-5488
http://lcl.okstate.edu
Get involved through student organizations; the Center for Ethical Leadership; International Students & Scholars; Non-traditional Student Services; and Parent & Family Relations.

Service-Learning Volunteer Center
211G Student Union/405-744-5145
http://volunteer.okstate.edu/
Find volunteer opportunities and earn the recognition C.O.R.D. to wear at graduation.

University Dining Services
076 Student Union/405-744-4424
http://dining.okstate.edu/
For questions and comments about meal plans or university dining operations, contact University Dining Services.

ACADEMIC SUPPORT RESOURCES AND TUTORING

Learning and Student Success Opportunity (LASSO) Tutoring Center
021 Classroom Building/405-744-3309
https://lasso.okstate.edu/
LASSO offers free individual and group tutoring for a variety of courses.

Student Academic Services Centers

Agricultural Sciences & Natural Resources
136 Agricultural Hall/405-744-5395
Contact: Dr. Deb VanOverbeke
http://casnr.okstate.edu/students/ssc
Academic support and career guidance resources are available for CASNR students.

Arts & Sciences
213 Life Sciences East/405-744-5658
Contact: Dr. Amy Martindale
http://casstudents.okstate.edu/
Academic support and career guidance resources are available for Arts & Sciences students.

Education, Health & Aviation
106 Willard Hall/405-744-6350
Contact: Leslie Evans
http://education.okstate.edu/watson
Academic support, advisement and career counseling is available to all education majors.

Engineering, Architecture & Technology
110 Engineering North/405-744-5276
Contact: Lance Millis
https://studentservices.okstate.edu/advising
Academic advising and career services are available for all CEAT students. Tutoring is offered for general math, science, and engineering courses.

Human Sciences
101 Human Sciences/405-744-2772
Contact: Kristi Seuhs
http://humansciences.okstate.edu/current-students
Academic support and career guidance resources are available for Human Sciences students.

Spears School of Business
103 Business Building/405-744-2772
Contact: Marissa McIntyre
http://spears.okstate.edu/ss/
Academic advisement is provided for freshmen through seniors in all business major areas.

University College Advising
214 Student Union/405-744-3333
Contact: Missy Wikle
https://uca.okstate.edu/
University College Advising has academic advisors to help with your academic needs, whether planning your semester schedule, teaching your First-Year Seminar class, looking at degree options, or helping to bridge the gap between student life and academic success. Call or visit the office anytime Monday through Friday, between 8:00 a.m. and 5:00 p.m.
Discipline Specific Tutoring

Academic Development Center
Kerr-Drummond Mezzanine/405-744-5905
http://reslife.okstate.edu/vac
Tutoring and supplemental instruction are available on select weekday, weekend, and evening hours.

Accounting
416 Business Building/405-744-2863
Walk-in tutoring is available for ACCT 2103, 2203, and 3103. See https://spears.okstate.edu/accounting/ace/ for hours.

Biology & Zoology
303 Life Sciences West
http://biol1114.okstate.edu
Tutoring is provided for BIOL 1114.

Chemistry
453 Physical Science/405-744-9046
Tutoring for chemistry classes is available.

Civil & Environmental Engineering
315 Engineering South/405-744-9308
Tutoring for Statistics and Strength of Materials is available. Contact for more information.

Eta Kappa Nu Electrical and Computer Engineering Honor Society
010 Engineering South/405-744-4910
https://campuslink.okstate.edu/organization/eta-kappa-nu
Tutoring is provided by Eta Kappa Nu membership for Circuits, Network Analysis, and Electronic Devices.

Foreign Languages
206 Gunderson Hall/405-744-9547
http://languages.okstate.edu
Two 28-user labs fully equipped with personal computers and listening/recording devices are available. Students may practice vocabulary building and grammar in the target language.

Graduate Research and Writing Lab
Contact: Victor D. Baeza/victor.baeza@okstate.edu/405-744-1241
http://info.library.okstate.edu/RLS/grads
Tutoring is available evenings from 5:00 p.m.-8:00 p.m. on Monday and Tuesday for current OSU graduate students.

History
101 S Murray Hall/405-744-5680
http://history.okstate.edu/contact
Tutoring is given for Survey of History and upper division courses.

Mathematics Learning Success Center
5th Floor Edmon Low Library/405-744-5818
http://www.math.okstate.edu/
Tutors are available to answer questions for classes ranging from Beginning Algebra through Calculus II. Tutoring for Differential Equations and Linear Algebra is offered at specific times.

Writing Outpost
102 Q, R, S Edmon Low/405-744-6671
http://osuwritingcenter.okstate.edu
30-minute walk-in consultations for writing projects are offered on a first come-first served basis on Monday-Thursday evenings 7:00 p.m.-10:00 p.m.

Writing Center
440 Student Union/405-744-6671
http://osuwritingcenter.okstate.edu
The Writing Center helps writers throughout the composing process; plan to visit early and often throughout the semester, not just the day before an assignment is due. Tutors work with students to improve brainstorming, organizational, and composing techniques.

Writing Center West
103 Ag Hall/405-744-6671
http://osuwritingcenter.okstate.edu
30-minute walk-in consultations for writing projects are available Monday-Friday from 11:30 a.m.-2:30 p.m.
FOR MORE INFORMATION

**go.okstate.edu/apps**
The OState app is your link to campus departments, OSU news, and maps. The Orange Shield app is the official safety app of OSU.

**my.okstate.edu**
This portal connects students to a wide range of campus services including links to student email, the library, and the Online Classroom and Community (D2L).

For other comments and inquiries, please contact academics@okstate.edu.