

# Math 095

## Course Syllabus

Western Oregon University, Spring 2009

**Instructor:** Karen Brown

**Contact information:** Email is best: [brownk@wou.edu](mailto:brownk@wou.edu) Be sure to use "Math 095" as the subject of the email, because I read notes from my students that do this before other notes.

**Phone:** 503-838-8265. If you want me to call you back, say your phone number slowly, and state whether it is a local call or not.

**Office:** NS 213; **Hours:** Monday, Tuesday, Thursday 11 AM to noon, & Wednesday 9 to 11 AM

**Website:** <http://www.wou.edu/~brownk> See my website for this course for the syllabus, course schedule, homework assignments, skills test info, and updates to the course throughout the term.

**Course Description:** Basics of algebra, including arithmetic of signed numbers, order of operations, arithmetic of polynomials, linear equations, problem solving, factoring techniques, graphing lines, exponents, radicals, and quadratic equations. Credits earned apply for enrollment (eligibility) but do not apply toward a degree; satisfies no university or college requirement. Prerequisite: Math 070 with a grade of C- or better, or satisfactory score on WOU's math placement test. Math 095 is a developmental math course designed to prepare you for Math 111 and Math 211.

### Required Course Materials:

- Textbook: *Introductory & Intermediate Algebra* by Julie Miller, Molly O'Neill and Nancy Hyde, 2007, McGraw Hill, Boston, ISBN-13: 978-0-07-329807-8
- Workbook: *Materials to accompany Beginning Algebra* by Stefan Baratto and Barry Bergman, 2008, McGraw Hill, Boston, ISBN-13: 978-0-697-78297-7
- A TI-83 or TI-84 graphing calculator. If you have a different graphing calculator you would like to use, please see me. You may not use your cell phone as a substitute calculator during quizzes or exams.
- Graph paper for some homework assignments.

**Grading:** Your grade will be determined by your performance on quizzes and exams, timely and accurate homework assignments, and in-class activity points. The points will be distributed as follows:

Assessment	Value	Total points
Quizzes	25 points each x 8	200
Midterm exams	100 points each x 2	200
Final exam	250 points	250
Homework	25 points each x 8	200
In-class activities	5 points each x 30	150

Grades are based on a standard 90+=A, 80+=B, 70+=C, 60+=D scale. There may be ± grades. In addition, you will be required to pass an algebra skills test with a score of at least 80% to pass this class. You may not use a calculator during this exam. This will be taken in class at the end of week 4. If you do not get at least 80%, you can take it outside of class once each week until you have attained 80% or better score. This skills test will not be a component of your letter grade in this course. A practice skills test is available on my website, along with the solutions.

- **Quizzes**—usually given on Monday. These will be over material for the homework assigned the previous week. There are no makeups on quizzes after the quiz has been returned to other students. Your lowest quiz score will be dropped from your grade.
- **Exams**—two midterm exams will be given throughout the term. These will be unit exams, over material presented in class and homework assignments. The final exam will be comprehensive. Exams must be taken as scheduled, unless you have made prior arrangements with me, or have a documented emergency that prevents you from attending class when the exam is scheduled.

- **Homework**—homework assignments are shown on page 3 of this syllabus. These are due on Mondays of the week following the presentation of the material. Make sure they are neat and orderly, and your name is on them. Late homework will not receive full credit. There are specific instructions about the format of the homework on page 4 of this syllabus that must be followed to get full credit. If you have difficulty with the homework, see me in office hours, make an appointment with me, or take advantage of free tutoring services available in the Learning Center by appointment, and drop-in at the math department. Tutors begin the second week of classes. Go early; go often! Your lowest homework score will be dropped from your grade.
- **In-class activities**—these will be assigned daily in the *Beginning Algebra* workbook. If you miss class, you cannot get credit for these activities. Since 30 count for credit, and there are more than 30 days in the term, if you miss a few days, you will not lose points. These will be returned the following day, and should be a supplement to your notes and homework assignments.

**Incomplete status:** If you find yourself in personal circumstances that leave you unable to complete this class, you may request that your grade be reported as 'incomplete'. You *must be passing* when you request a report of incomplete. You must sign an agreement with me about when and how you will complete this course. You may present your reason for request to me, or go through official University channels. See page 24 of the WOU 2008-09 catalog for more information.

Tentative schedule for Math 095, Spring 2009 Homework problems assigned are on the next page.

Monday	Tuesday	Wednesday	Thursday
3-30 Section 3.3	3-31 Section 3.4	4-1 Section 3.5	4-2 Section 3.6
4-6 <b>Quiz on Ch 3*</b> Section 7.1	4-7 Section 7.2	4-8 Section 7.3	4-9 Section 7.4
4-13 <b>Quiz on Ch 7*</b> Section 8.1	4-14 Section 8.2	4-15 Section 8.2 cont.	4-16 Section 8.3
4-20 <b>Quiz on Ch 8*</b> Section 5.4	4-21 Section 5.5	4-22 Section 5.6	4-23 Section 6.1, 6.2 <b>Skills Test</b>
4-27 <b>Quiz on Ch 5*</b> Section 6.6	4-28 Review for midterm exam on Ch 3, 5, 7, 8	<b>4-29</b> <b>Midterm exam:</b> <b>Chapters 3, 5, 7, 8</b>	4-30 Section 9.1
5-4 <b>Quiz on Ch 6*</b> Section 9.2	5-5 Section 9.3	5-6 Section 9.4	5-7 Section 9.5
5-11 <b>Quiz on Ch 9.1-5*</b> Section 9.7	5-12 Section 9.7 continued	5-13 Section 9.8	5-14 Section 9.8 continued
5-18 <b>Quiz on Ch 9.7-8*</b> Section 10.1	5-19 Review for midterm exam on Ch 6, 9	<b>5-20</b> <b>Midterm Exam</b> <b>Chapters 6, 9</b>	5-21 Section 10.1 continued
5-25 HOLIDAY!!	5-26 <b>Quiz on Ch 10.1*</b> Section 10.2	5-27 Section 10.2 continued	5-28 Section 10.2 continued
6-1 <b>Quiz on Ch 10.2*</b> Section 10.4	6-2 Section 10.4 continued	6-3 Review for final	6-4 Review for final
Finals week			<b>6-12</b> <b>Final exam</b>

\*Homework from previous week is due. Late assignments will not receive full credit. Homework not turned in before the exam that covers the material will not be accepted.

### Homework assignments from textbook

Assignment #	SECTION	PROBLEMS
Assignment 1 Due 4-6	3.3	14-17, 34, 40, 56, 60, 63, 71, 78, 81
	3.4	18, 23, 29, 30, 32, 34-39, 42, 50, 55, 82, 87
	3.5	14, 18, 29, 33, 36, 37, 40, 54, 56, 61
	3.6	8, 10, 17, 18, 25
Assignment 2 Due 4-13	7.1	16, 20, 22, 25, 29, 32, 39, 41, 42
	7.2	10, 14, 19, 24, 36, 38
	7.3	5, 10, 12, 16, 21, 26, 29, 39, 41, 42
	7.4	7, 14, 18, 20, 25, 28
Assignment 3 Due 4-20	8.1	7-10, 12, 13, 14, 16, 17, 18, 22, 24, 26
	8.2	5-16, 18, 27, 36, 45, 54, 59, 64, 67, 70, 75, 80
	8.3	12-30, 39-44, 46, 48, 49
Assignment 4 Due 4-27	5.4	17, 18, 43, 44, 47, 48, 51, 52, 61, 62
	5.5	53, 56, 65, 66, 67, 80
	5.6	22, 25, 28, 36, 45, 54, 63, 72, 91
Assignment 5 Due 5-4	6.1	5, 8, 11, 28, 29, 43, 44, 87, 88
	6.2	16, 17, 29, 30, 43, 44
	6.6	10, 12, 19, 24, 29, 34, 41, 46, 47
Assignment 6 Due 5-11	9.1	9, 10, 13, 21, 40, 44, 62, 83, 86
	9.2	22, 31, 43, 52, 53, 54, 68, 74, 77, 80, 84
	9.3	14, 20, 26, 34, 36, 48, 55, 57, 58
	9.4	16, 20, 36, 38, 39, 41, 45, 61-66
	9.5	15, 20, 23, 31, 36, 38, 44, 48, 54, 58, 62, 67, 70, 94, 96, 98
Assignment 7 Due 5-18	9.7	20, 22, 24, 30, 40, 48, 54, 57, 70, 71
	9.8	18, 23, 34, 35-38, 58, 63, 66, 67, 69, 74, 81, 86, 89, 92, 96
Assignment 8 Due 5-26	10.1	3, 7, 8, 12, 13, 16, 22, 24, 26, 28, 30, 31, 32
Assignment 9 Due 6-1	10.2	18, 20, 24, 29, 32, 50, 70, 76, 78, 82
Assign. 10 extra credit	10.4	10, 13, 34, 50, 58, 62, 67, 71, 76, 78

## **Homework format standards:**

- Write the chapter section at the top of **each** page, and where you begin a new section within a page. (You may also include the assignment number, if you wish.) You do not need to start new sections on a fresh page, but leave a few lines blank between one section and the next section, and draw a line under the section label to show it clearly is a new section.
- **Do the problems in order**, and turn in the packet fastened with something that does not stick out from the edge of the page. Most people use staples, but clips that are flush with the page-edge are acceptable.
- **Show your work** for every problem you needed to do work for. This includes showing what you needed to cross out to obtain the final answer.
- **Circle the final answer**. A box or underline is NOT a circle.
- **Start new problems on new lines**. Do not continue the next problem on the same line. You may find it more efficient with paper to *work in columns*, usually no more than two to a page. *Work down the first column, and begin the second column with the problem after the last one at the bottom of the first column.*
- **Put problem numbers off to the left of the problem work**. A common method is to put the problem numbers to the left of a margin line printed on the paper.
- Do not turn in papers with the tearouts of spiral notebooks attached. Use loose-leaf sheets or gum-bound pads, buy a notebook that has micro-perforations so you can tear those off, or cut the spiral shreds off of the pages.
- Be sure your name is on each homework assignment.

## **Classroom expectations:**

- Show up on time and ready to work.
- Bring your textbook, workbook, calculator, paper and something to write with every day.
- Ask questions if you don't understand.
- Expect to solve problems in class. Even if you are shy, you will be called upon to describe the procedure, or show solutions on the whiteboard or doc-cam. Language barriers or inability will not exempt you from this. Math is NOT a spectator sport; you will learn by doing, and seeing how you and others work to find solutions.
- Don't talk to other students when your instructor is talking to the class. If you have a question, ask it aloud so we all can help you find the answer.
- Texting or surfing on your phone is not appropriate classroom behavior. If you feel the need to have your phone turned on during class, be prompt in responding to its summons when it rings.

The online version of this syllabus has some catalog information important to this course. It has not been printed, because you should have a copy of the WOU 2008-2009 catalog.

Below is some collected information from Western Oregon University Catalog, 2008-2009. These are included here because they are important to your success in this class. Each excerpt is noted with the page on which it appears in the catalog.

## Spring term Calendar

<b>Classes begin</b>	Monday, March 30
Fee payment & add/drop begin	Monday, March 30
Last day to pay fees without penalty	Friday, April 3
Last day to add courses, change grade options, elect graduate/undergraduate credit or pay fees	Friday, April 17
Last day to drop courses	Friday, May 8
Registration for next term	Monday, May 18 - Friday, May 22
Final examination week	Monday, June 8 - Friday, June 12
Spring term ends	Friday, June 12

(inside front cover)

## University Mission Statement

Western Oregon University is a comprehensive university that creates personalized learning opportunities, supports the advancement of knowledge for the public good and maximizes individual and professional development. Our environment is open to the exchange of ideas, where discovery, creativity and critical thinking flourish, and students succeed. (p. 3)

### College of Liberal Arts and Sciences

Dean Stephen Scheck

#### Mission Statement

The College of Liberal Arts and Sciences provides the central learning experience for all undergraduate students at Western Oregon University. The faculty are committed to engaging students in academic discovery and intellectual growth via the core curriculum, major and minor baccalaureate curricula, and mastery in select graduate programs.

#### Program Objectives

1. Engage students in scholarly pursuits that benefit their preparation for life-long learning and societal engagement.
2. Provide an environment where students may develop disciplinary competencies necessary for their chosen career fields.
3. Provide opportunities for faculty-student mentoring and out-of-classroom learning opportunities.

For more information, see the Web site at:

[www.wou.edu/las](http://www.wou.edu/las). (p. 37)

### Natural Sciences and Mathematics Division of the College of LAS

Division Chair Steve Taylor

The Natural Sciences and Mathematics Division is responsible for majors and minors in biology, chemistry, Earth science, integrated science, mathematics and natural science.

#### Mission

To offer quality liberal arts education in Biology, Chemistry, Earth Science, Mathematics, Physics and Pre-Professional Studies. Our students have the opportunity to acquire and assimilate mathematical and scientific knowledge, that they may broaden and refine their understanding of the ever-changing world around them, both while at Western Oregon University and throughout their lives.

#### Program Objectives

1. To help students internalize and apply both the scientific method and major scientific and mathematical concepts and principles.
2. To enhance students' reasoning and problem solving skills.
3. To improve students' individual and collaborative skills in preparation for the global scientific and mathematical challenges of the 21st century. More detailed program information, including program admission requirements can be obtained by contacting the division at: 503-838-8206, or on the Web at

[www.wou.edu/las/natsci\\_math/nsmdiv.html](http://www.wou.edu/las/natsci_math/nsmdiv.html).

(p. 38)

## Institutional aspirations for learning

Students at WOU will be challenged to achieve their highest potential through a rigorous and stimulating curriculum. Between 2004 and 2005, a set of educational goals called Institutional Aspirations for Learning were collaboratively developed by our faculty after focused discussions about the fundamental aims of liberal education in the 21<sup>st</sup> century. These aspirations constitute the core competencies, skills, experiences and values credited to, and expected of, WOU's educational process and its graduates. We believe that these aspirations are the basic building blocks of a high-quality education as well as the foundations for productive careers, life long development and informed citizenship on a local, national and global level.

1. Students will develop more refined critical thinking skills, including advanced analytical, logical and quantitative reasoning abilities as well as excellent problem-solving skills.
2. Students will develop effective communicative abilities, including listening, observing, speaking, writing and dialoguing.
3. Students will become active readers with an enhanced ability to carefully, closely and thoughtfully read a range of texts.
4. Students will acquire field or discipline specific knowledge and they will understand disciplinary modes of intellectual inquiry.
5. Students will develop an interdisciplinary and integrative perspective as they recognize, explore, appreciate and engage the interconnections between disciplines.
6. Students will develop advanced research abilities and they will demonstrate improvements in their information and media literacy.
7. Students will learn how to use appropriate technologies.
8. Students will acquire and demonstrate competencies, skills, attributes and values necessary for successful participation in a diverse, pluralistic and increasingly interdependent world.
9. Students will be able to work effectively in teams.
10. Students will strive to be well-balanced persons capable of making thoughtful and healthy choices.
11. Students will be able to apply theory in relevant, appropriate and reflective ways. (p. 6)

## Disability Services

Director Malissa Larson

The Office of Disability Services facilitates appropriate accommodations on campus for students and visitors with disabilities. Services provided by the office help ensure that students with disabilities are able to participate fully in all of WOU's programs and activities. The needs of each student who has a disability are assessed on an individual basis so that each receives the most appropriate accommodations and/or support. The following list of services provided by the Office of Disability Services are the most commonly requested:

- Accessibility assistance: wheelchair accessibility to buildings and campus grounds, communication equipment (FM systems, audio-looped rooms, TTYs, closed caption decoders, amplified phones), CC-TV, Braille, scanner, voice output computer access and other technical equipment
- Accessibility aides: note takers, readers, transcribers, classroom assistants, exam proctors
- Advising: academic, career, personal/social
- Advocacy: for appropriate accommodations, alternative testing, preferred accessibility aid
- Communication aides: Sign language interpreters who use student's preferred signed communication mode (from ASL to MCE), and oral interpreters are provided upon request for classes, school sponsored activities, and meetings with faculty and staff
- Empowerment: Through networking groups, workshops and interaction with the office staff, students learn of their rights and how to obtain services they need.
- Leisure and social activities: Accessibility assistance and aids are provided to encourage and support the students' full participation in all parts of campus life.
- On-campus housing: accessible to deaf, hard of hearing, blind students and students using wheelchairs or other assistive mobility aids
- Orientation: to the campus and services provided by the Office of Disability Services as well as general university services available

Please contact the Office of Disability Services for more information at 503-838-8250 V/TTY or e-mail [ods@wou.edu](mailto:ods@wou.edu). (p. 30)

## Academic Advising and Learning Center

Director Karen Sullivan-Vance

### **Academic Advising Center**

Academic advising at WOU is a developmental process designed to help students define their life and career values and goals in relation to their academic plan. Both the student and adviser have a shared responsibility in the ongoing dialogue that helps students maximize their educational experience at WOU. All undergraduate students are required to meet with their academic adviser at least once a term until a degree plan is filed with the Registrar's Office. Students are encouraged to meet with their adviser when they have questions about their educational goals. Students have access to faculty advisers in their major and minor areas of study. In addition, the Academic Advising and Learning Center's professional advisers can advise students about requirements, along with pre-education and undecided students.

The Academic Advising and Learning Center works with:

- Students to identify their life and career goals in relation to possible academic programs
- Undecided students who are exploring different majors
- Students transferring into WOU from another institution
- Students on academic warning, probation or suspension
- Academic requirements for graduation, including the Liberal Arts Core Curriculum (LACC)

For more information, call 503-838-8428 V/TTY, e-mail [advising@wou.edu](mailto:advising@wou.edu) or go to the Web page [www.wou.edu/advising](http://www.wou.edu/advising).

### **Learning Center**

Academic skills, including study skills and time management, are essential for college success. The Learning Center helps students assess their current academic skills and develop new skills to help them become successful. Services are provided to WOU students at no charge. Services at the Learning Center include:

- Peer tutoring in most academic subjects by appointment
- Drop-in math tutoring hours
- Tutor-assisted study groups
- Individual study skills assessment and assistance (time management, test taking, note taking, listening, textbook reading, etc.)
- Student computer lab

Tutoring assistance is offered in most academic subjects by peer tutors who have been recommended by faculty. The tutor's goal is to help students improve their knowledge and develop better study habits. Students must be currently enrolled in the requested class at WOU for tutoring. For more information, call 503-838-8501, (503-838-8428 TTY), or go to the web page [www.wou.edu/learning](http://www.wou.edu/learning). (p. 39)

### **Standards of Conduct**

The following list of prohibited forms of conduct is not all inclusive since it is not possible to list all potential violations.

1. Academic Dishonesty, which includes but is not limited to:
  - a. *Cheating* - intentional use, or attempted use of artifice, deception, fraud, and/or misrepresentation of one's academic work;
  - b. *Fabrication* - unauthorized falsification and/or invention of any information or citation in any academic exercise;
  - c. *Facilitating dishonesty* - helping or attempting to help another person commit an act of academic dishonesty. This includes students who substitute for other persons in examinations or represent as their own papers, reports, or any other academic work of others;
  - d. *Plagiarism* - representing without giving credit the words, data, or ideas of another person as one's own work in any academic exercise. This includes submitting, in whole or in part, prewritten term papers of another or the research of another, including but not limited to the product of commercial vendors who sell or distribute such materials, and the appropriation and/or use of electronic data of another person or persons as one's own, or using such data without giving proper credit for it; or
  - e. *Any use or attempted use of electronic devices* in gaining an illegal advantage in academic work in which the use of these devices is prohibited, and such devices include but are not limited to cell phones, PDAs, laptops, programmable calculators, removable disk drives, etc. (p. 30-31)

## Statement on discrimination, including sexual harassment

Western Oregon University is committed to cultivating an educational and work environment in which all individuals are treated with respect and dignity. Each individual has the right to learn and work in an atmosphere that promotes equal educational and employment opportunities and prohibits discriminatory practices, including harassment. Western Oregon University expects relationships across campus will be free from bias, prejudice and harassment.

This policy statement is intended to reaffirm Western Oregon University's prohibition against discrimination and harassment, clarify types of prohibited conduct, and provide an effective complaint procedure to individuals who believe they have observed or have been subject to prohibited conduct.

### *Discrimination*

Discrimination, for the purposes of this policy, is defined as any act or practice, in form or operation, whether intended or unintended, that unreasonably differentiates among persons on the basis of race, color, religion, national origin, age, sex, marital status, sexual orientation, veteran status or disability or any other status protected under the law.

### *Harassment*

Harassment, for the purposes of this policy, is defined as conduct that creates an intimidating, hostile, or degrading environment that would interfere with the work or academic performance of a reasonable person of the complainant's protected status.

### *Sexual Harassment*

Sexual Harassment, whether or not it be by direct physical attack, as defined below. Sexual harassment includes, but is not limited to, sexual advances, requests or suggestions to engage in sexual conduct, and other physical and expressive behavior of a sexual nature when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, grade, or used as a basis for any employment or academic decision; or
- Such conduct is unwelcome and has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creates an intimidating, hostile or offensive work or academic environment..

Additional information is available at [www.wou.edu/sexualharassment](http://www.wou.edu/sexualharassment).

To request a complete hard copy of the discrimination and harassment policy and complaint procedure; to discuss a sexual harassment, harassment or discrimination concern; or to file a sexual harassment, harassment or discrimination complaint, contact udy Vanderburg at 503-838-8131 or [vanderj@wou.edu](mailto:vanderj@wou.edu).

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