CSE 220
Sec 1 - 4
Programming in C
Spring 2018
http://www.cse.msu.edu/~cse220

Instructor: Dr. Juyang Weng
Office Hours: 3144 EB Wed. 5-6pm and Fri. 5-6pm, and by appt.
Email: weng@cse.msu.edu (I receive too many emails everyday and email responses would be late. Preferred: talk to me directly after class.)
Phone: 517-353-4388

Teaching Assistant 1 (Recitation and grading for Sec 1 and 3):
Zhiming Jiang
Office Hours: 3203 EB (bone Lab), Tuesdays and Fridays 2:00pm - 3:00pm and by appointment.
Email: jiangzh7@msu.edu

Teaching Assistant 2 (Recitation and grading for Sec 2 and 4):
Adam Weckle
Office Hours: 3203 EB (bone Lab), Mondays 9:00am-10:00am and Fri. 5:00pm - 6:00pm, and by appointment.
Email: wecklead@msu.edu

Classes: This is a 3-credit course, having two types of classes: lectures and recitations.

Lectures: Mon. & Wed. 12:40 pm – 1:30 pm, N101 North Kedzie Hall.

Recitations:
Sec 1: Tuesdays, 3:00pm - 4:50pm, 3353 Engineering Building
Sec 2: Thursdays, 3:00pm - 4:50pm, 3353 Engineering Building
Sec 3: Fridays, 3:00pm - 4:50pm, 3353 Engineering Building
Sec 4: Fridays, 3:00pm - 4:50pm, 105 Farrall Agricultural Eng. Hall

Course Description:
This course is an introduction to programming in C. Students with little or no programming background will learn the syntax and semantics of the C language. They will design, implement and test C programs. Students will learn general programming concepts and apply them to solve basic problems in engineering and mathematics.
**Prerequisite:** (EGR 100 or ECE 101) and ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)).

**Course Topics:**
Standard C data types, C control structures, Functions, Input and output, Arrays and Pointers, Structures, Compiling and linking


**Examinations**
Exams will be closed book and closed notes. Bring your MSU picture ID with you to all exams and quizzes to verify your name when you submit your exams.

*No* digital devices (e.g., calculators, music players, phones, translators) are allowed during quizzes or exams. You are required to show your MSU ID when you submit exams.

There will be *no* make-up exams.

Exam dates are scheduled on the syllabus. Midterm exam will cover all topics discussed through the previous week, inclusive. The final exam will cover all course topics.

Graded work will be weighted to count:
- Recitation exercises 25%
- Homework 25%
- Midterm exam 20%
- Final exam 30%

**Grading:** Your final course score will be calculated based on the total score as follows:
- 4.0 90% or above
- 3.5 85% or above
- 3.0 80% or above
- 2.5 75% or above
- 2.0 70% or above
- 1.5 65% or above
- 1.0 60% or above
- 0.0 < 60%

We may decide to shift the score thresholds downwards if circumstances warrant doing so (e.g., score distribution) but not upwards.

**Recitation**
You are expected to attend every recitation. The instructor may lecture in some of the recitations to make up for a shortage of lecture classes to keep the class on schedule. Other recitations will be led by the teaching assistants. These will be devoted to
interactive problem solving (you submit onsite and is graded onsite) and answering your questions about course material. Recitation exercises cannot be made up.

**Homework**

Homework will be assigned online, collected online, and graded online. Some homework problems will be discussed during recitation, and you will have the opportunity to ask questions.

Collaboration and discussion on homework is encouraged in groups of up to four students. However, each student must write down his own work independently after the collaboration and discussion is over on each problem without looking at other’s work. Copying other’s work is strictly prohibited. It is important that you take advantage of peer collaborations to learn from and teach one another because exams will not be collaborative. You will need to demonstrate individual mastery of course concepts on exams.

**No Late Work**

No late work is acceptable.

In case of documented schedule crisis (e.g., university team competitions or illness) provide, well in advance, formal and signed documents with contact information (absent dates, telephone number and email address) for verification well in advance. The approved corresponding due will be taken out from the total score. No consideration will be given for a petition about documented crisis that is submitted to the instructor 7 days or more after the work due date.

In case of illness, provide as soon as your first doctor visit, the doctor's official written notes in his business letter head that include your name, nature of the illness that justifies the absence and duration, exact dates of requested absence from school work, doctor's name and address, telephone number, email address, his signature and date of signature. Incomplete notes will not be considered.

**Piazza Discussion Forum**

We will use Piazza for a discussion and notification forum for this class. You will receive an invitation to join Piazza in the first week of class. The instructor and TAs will monitor Piazza and respond to questions posted to it; other students may also do so. If you have a question, you will often find that it has already been asked and answered on Piazza—so check. Important class notifications will be sent via Piazza. Be sure that you accept the invitation to join. If you do not receive an invitation to join in the first week of class, notify your TA. However, Piazza is not always effective for asking last-minute technical questions. See the instructors and TA to interactively understand the questions and answers.

**Academic Honesty**

Michigan State University adheres to the policies on academic honesty as specified in General Student Regulations: 1.00 Protection of Scholarship and Grades and in the MSU
Ordinance. These policies are included in MSU Policies, Regulations and Ordinances Regarding Academic Honesty and Integrity. See https://www.msu.edu/~ombud/academic-integrity/. Any student found guilty of academic dishonesty may receive a 0.0 for the course.

**Drops and Adds**
The last day to add this course is Fri. 1/12. The last day to drop this course with a 100% refund and no grade reported is Fri. 2/2. The last day to drop this course with no refund and no grade reported is Wed. 2/28. You should immediately make a copy of your amended schedule to verify you have added or dropped this course.

**Campus Emergencies**
If an emergency arises in the classroom, building or vicinity, your instructor will inform you of actions to follow to enhance your safety. As a student in this class, you are responsible for knowing the location of the nearest emergency evacuation route or shelter. These directions appear on the maps posted on the walls throughout this building. If police or university officials order us to evacuate the classroom or building, follow the posted emergency route in an orderly manner and assist those who might need help in reaching a barrier-free exit or shelter.

Enter the classroom with your phone in silent mode which receives emergency messages. If you observe or receive an emergency alert, immediately and calmly inform your instructor. (See also http://www.alert.msu.edu.)

**Tentative Schedule of Topics**

<table>
<thead>
<tr>
<th>Week</th>
<th>Mon.</th>
<th>Wed.</th>
<th>Topic</th>
<th>Reading</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/8</td>
<td></td>
<td>Lecture L1: Introduction to Course</td>
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<tr>
<td></td>
<td></td>
<td>1/10</td>
<td>L2: Introduction to C</td>
<td>1</td>
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<td>Reci.</td>
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<td></td>
<td>Tu, Th, or Fri.: Exercise and Homework</td>
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<td>2</td>
<td>1/15</td>
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<td>Martin Luther King Day, no class</td>
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<td></td>
<td></td>
<td>1/17</td>
<td>L3: C Fundamentals (I)</td>
<td>2.1 - 2.4</td>
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<td>Reci.</td>
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<td>Tu, Th, or Fri.: Exercise and Homework</td>
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<tr>
<td>3</td>
<td>1/22</td>
<td></td>
<td>L4: C Fundamentals (II)</td>
<td>2.5 - 2.8</td>
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<td></td>
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<td>1/24</td>
<td>L5: Formatted Input and Output</td>
<td>3</td>
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<td>Reci.</td>
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<td>Tu, Th, or Fri.: Exercise and Homework</td>
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<td>4</td>
<td>1/29</td>
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<td>L6: Expressions</td>
<td>4</td>
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<td>1/31</td>
<td>L7: Selection Statements (I)</td>
<td>5.1</td>
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<td>Reci.</td>
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<td>Tu, Th, or Fri.: Exercise and Homework</td>
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<td>5</td>
<td>2/5</td>
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<td>L8: Selection Statements (II)</td>
<td>5.2-5.3</td>
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<td>2/7</td>
<td>L9: Loops (I)</td>
<td>6.1-6.3</td>
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<td>Tu, Th, or Fri.: Exercise and Homework</td>
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<td>6</td>
<td>2/12</td>
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<td>L10: Loops (II)</td>
<td>6.4-6.5</td>
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<td>2/14</td>
<td>L11: Basic Types</td>
<td>7</td>
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<td>Reci.</td>
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<td>Tu, Th, or Fri.: Exercise and Homework</td>
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The instructors reserve the right to modify the schedule, as necessary, during the semester. Students will be notified of all modifications in class and by updating the website.