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Course Name: Accelerated Introduction to Computer Science
Course Number: CS 165
Credits: 8

Course Description
Overview of the fundamental concepts of computer science. Introduction to problem solving, algorithm development, data types, and basic data structures. Introduction to analysis of algorithms and principles of software engineering. System development and computer programming using procedural/object-oriented paradigms. Offered via Ecampus only.

Prerequisites: MTH 111 [C] or Placement Test MPAL (060) Other Prerequisites: CS Double Degree students must have a BA/BS degree.

Course Credits
8 credits = This course combines approximately 240 hours of instruction, online activities, and assignments for 8 credits.

Course Content
- Identifiers and primitive data types
- Assignment, arithmetic, logical and relational operators
- Expressions and statements
- Debugging
- Flow of Control: Selection, repetition
- Functions, parameter passing, call by value and call by reference
- Object-oriented programming, polymorphism, operator overloading
- One- and two-dimensional arrays, strings and other structured data types
- Pointers
- Recursion
- Searching, Sorting, big-O
- Operator overloading, inheritance, polymorphism
- Exceptions, templates
- Basic data structures

Two Fundamental Rules
1. You are responsible for knowing the contents of the syllabus and all of the information about the course provided on Canvas.
2. You are responsible for knowing the contents of any instructor emails sent to you, instructor messages sent to you via Canvas or Piazza, and instructor announcements made on Canvas, which means that you should make sure you receive such
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communications, that you check for new ones at least once a day, and that you read them. (You do not have to read all posts anyone makes in Piazza, or even all the posts I make on Piazza – just the ones that are in response to a post you made.)

Learning Resources

Textbook (required):
C++ Early Objects, 9th ed. By Gaddis et al.

Note to prospective students: Please check with the OSU Bookstore for up-to-date information for the term you enroll (OSU Bookstore Website or 800-595-0357). If you purchase course materials from other sources, be very careful to obtain the correct ISBN.

Course Tools

- Canvas is the course management software used for this course.
- TEACH is the website where you will enable your ENGR account so you can log in to the school server (“flip”).
- Ecampus Exams and Proctoring Form is where you will tell us who your proctor will be for the exams.
- PuTTY/Terminal are terminal emulators – they provide a window where you will interact with the OSU server (flip), using a command-line interface. Terminal is built into Macs. For Windows you can download and install PuTTY.
- Linux is the operating system used on flip.
- Scp/FileZilla are ways you can transfer files between your computer and flip. You can use the scp command in the command line of your terminal emulator, but FileZilla provides a convenient graphical interface. vim/nano/Xcode/Visual Studio are examples of code editors that provide an environment in which to create and edit computer programs.
- Mimir is a site where you will submit your code for the assignments.
- Piazza is a Q&A discussion forum.
- More information about these tools is available in the “Start Here” module on Canvas.

Canvas

This course will be delivered via Canvas where you will interact with your classmates and with your instructor. Within the course Canvas site you will access the learning materials, such as the syllabus, class discussions, assignments, projects, and quizzes. To preview how
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This course is offered through Oregon State University Extended Campus: http://ecampus.oregonstate.edu. For an online course works, visit the Ecampus Course Demo. For technical assistance, please visit Ecampus Technical Help.

Technical Assistance
If you experience any errors or problems while in your online course, contact 24-7 Canvas Support through the Help link within Canvas. If you experience computer difficulties, need help downloading a browser or plug-in, or need assistance logging into a course, contact the IS Help Desk for assistance. You can call (541) 737-8787 or visit the OSU IS Helpdesk online.

Evaluation of Student Performance
- Assignments 60%
- Exams 40%

Proctored Exams
This course requires that you take exams under the supervision of an approved proctor. Proctoring guidelines and registration for proctored exams are available online through the Ecampus testing and proctoring website. It is important to submit your proctoring request as early as possible to avoid delays.

There will be two proctored exams in this course. For each exam you will have a week during which to schedule it. You will be responsible for finding a proctor inforn to Ecampus, and scheduling a time for your exam (within the allotted week). If you consider using Proctor U, remember that it doesn’t work with Linux. There is more information about proctoring in the Proctored Exam Information module.

Statement Regarding Students with Disabilities
Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at http://ds.oregonstate.edu. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

Expectations for Student Conduct
Student conduct is governed by the university’s policies, as explained in the Student Conduct Code.
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Academic Integrity
Students are expected to comply with all regulations pertaining to academic honesty. For further information, visit Student Conduct and Community Standards, or contact the office of Student Conduct and Mediation at 541-737-3656.

OAR 576-015-0020 (2) Academic or Scholarly Dishonesty:
a) Academic or Scholarly Dishonesty is defined as an act of deception in which a Student seeks to claim credit for the work or effort of another person, or uses unauthorized materials or fabricated information in any academic work or research, either through the Student's own efforts or the efforts of another.
b) It includes:
   i) CHEATING - use or attempted use of unauthorized materials, information or study aids, or an act of deceit by which a Student attempts to misrepresent mastery of academic effort or information. This includes but is not limited to unauthorized copying or collaboration on a test or assignment, using prohibited materials and texts, any misuse of an electronic device, or using any deceptive means to gain academic credit.
   ii) FABRICATION - falsification or invention of any information including but not limited to falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.
   iii) ASSISTING - helping another commit an act of academic dishonesty. This includes but is not limited to paying or bribing someone to acquire a test or assignment, changing someone's grades or academic records, taking a test/doing an assignment for someone else by any means, including misuse of an electronic device. It is a violation of Oregon state law to create and offer to sell part or all of an educational assignment to another person (ORS 165.114).
   iv) TAMPERING - altering or interfering with evaluation instruments or documents.
   v) PLAGIARISM - representing the words or ideas of another person or presenting someone else's words, ideas, artistry or data as one's own, or using one's own previously submitted work. Plagiarism includes but is not limited to copying another person's work (including unpublished material) without appropriate referencing, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.
c) Academic Dishonesty cases are handled initially by the academic units, following the process outlined in the University's Academic Dishonesty Report Form, and will also be referred to SCCS for action under these rules.
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Tutoring
NetTutor is a leading provider of online tutoring and learner support services fully staffed by experienced, trained and monitored tutors. Students connect to live tutors from any computer that has Internet access. NetTutor provides a virtual whiteboard that allows tutors and students to work on problems in a real time environment. They also have an online writing lab where tutors critique and return essays within 24 to 48 hours. Access NetTutor from within your Canvas class by clicking on the Tools button in your course menu.