

Instructor : Aaron Montgomery

Class : W@ 2 pm in Samuelson 220

Office Hours : TW @ 9 am, MR @ noon, and by appt. in Samuelson 221E

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Web : <http://webwork.math.cwu.edu/~montgomery/189/207/>

Course Outcomes:

Students will:

- Explain how mechanical devices can be used to perform basic arithmetic, algebraic, differential, and integral calculations.
- Build basic calculating devices such as the abacus and the tri-bar adder.
- Describe a variety of mechanical calculating devices: abacus, Napier's Bones, Genaille-Lucas rulers, slide rules, mechanic firing solution computers, Turing machines.
- Describe the limits of computation.

Graded Coursework:

Participation (50%): Participation is graded based on attendance, willingness to participate in classroom activities, and participation in on-line quizzes. A total of 50 points will be awarded for participation.

Homework (20%): There will be sporadic homework assignments. They will be handed out in class and posted on the website. Homework is primarily intended to help you practice procedural skills which will be tested on the exams. Each homework assignment will be worth the same number of points and your homework score will be scaled to 20 points for the quarter.

Project (30%): A project will be assigned and students will work on it in class and outside of class. This project will involve building a computing device. More details about the project will be provided in class. The project will be worth 30 points.

$\geq 87\%$	B+		$\geq 93\%$	A		$\geq 90\%$	A-
$\geq 77\%$	C+		$\geq 83\%$	B		$\geq 80\%$	B-
$\geq 67\%$	D+		$\geq 73\%$	C		$\geq 70\%$	C-
			$\geq 63\%$	D		$\geq 60\%$	D-

Accommodations

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.