General Physics II Laboratory
Physics 11L - Spring 2017

Text : Provided handouts.

Content: This class is a companion class to General Physics II. You will do experimental work to observe the phenomena of electricity, magnetism, and optics and to verify and test the associated mathematical theory.

Evaluation: Each laboratory meeting you will earn one of four possible scores, 😀🙂😕😶.

😶: This score is earned by not coming to lab or not completing the lab in some significant way.

😕: This score is earned by completing everything but still being hazy about some parts.

🙂: This score is earned by completing everything and being clear about everything.

😀: This score is earned by completing everything and being clear about everything and then going on to independently investigate further in a structured way.

Your grade for the laboratory will be one of four possible grades, Fail, Low Pass, Pass, or High Pass.

Fail	😀 + 🙂 < 5 or 😶 > 2
Low Pass	😀 + 🙂 < 7 or 😶 = 2
High Pass	😀 > 8
Pass	None of the above are true

Reasonable and appropriate accommodations, that take into account the context of the course and its essential elements, for individuals with qualifying disabilities, are extended through the office of Student Disability Services. Students with disabilities are encouraged to contact the Student Disability Services Coordinator at (925) 631-4164 to set up a confidential appointment to discuss accommodation guidelines and available services. Additional information regarding the services available may be found at the following address on the Saint Mary's website:/ http://www.stmarys-ca.edu/academics/academic-advising-and-achievement/student-disability-services.html

Lab	Lab topic	Week	Tentative Lecture Content
L1	Charge/Coulomb	2/13	Charge and force
L2	Scalar Fields	2/20	Electric Potential / Electric Field
L3	Vector Fields	2/27	E- fields/Capacitors and dielectrics
L4	Capacitance/Current	3/06	review/ **Exam** Wednesday /current
L5	Ohm's Law	3/13	current/ circuits
L6	Kirchhoff's Laws	3/20	circuits
L7	Magnetic Force	3/27	**Exam** Monday / Magnetism
L8	Induction	4/03	Magnetism / Magnetic induction
	no lab	4/10	spring break
	no lab	4/17	spring break/ Magnetic induction
L9	Snell's Law	4/24	review/ **Exam** wed / Geometric Optics
L10	Ray Optics	5/01	Geometric Optics
L11	Interference	5/8	Wave Optics
	no lab	5/15	E&M waves