

CORE CURRICULUM IMPLEMENTATION TEAM RECOMMENDATION FOR THE SENIOR-YEAR INTEGRATIVE CAPSTONE

Student Learning Outcomes	
Habits of mind that foster integrative thinking between the liberal arts core curriculum and their major field of study.	In PHYS497 see 'Outcomes' 2, 3, 4, 7.
Achievement and demonstration through advanced research and/or creative projects the ability to frame questions, carry out critical analysis, and produce work of substantial complexity and quality related to their chosen field of study.	In PHYS497 see 'Outcomes' 5, 6. In PHYS498 see 'Outcomes' 1, 2, 3.
Reflect and demonstrate their ability to think critically, globally, and missionally about their discipline.	Critically: In PHYS497 see 'Outcomes' 2, 3, 4, 5, 6, 7. In PHYS498 see 'Outcomes' 1, 2, 3. Globally: In PHYS497 see 'Outcomes' 2, 3, 4, 7. Missionally: In PHYS497 see 'Outcomes' 3, 4, 7.

Required Products	
A required paper with a minimum length of 2000 words (approximately 7 pages) and worth a minimum of 10% of the assessment for the course in which it is included. This paper provides an opportunity for a summative assessment of the student's information literacy skills, including the proper citation of a minimum of 5 appropriate sources that support their research. Options to satisfy this prompt include, but are not limited to, a traditional research paper; a evaluative/reflective essay that accompanies a creative or scholarly work (such as a senior art show or recital), describing elements of the creative process; or a business plan that incorporates market research and analysis with the proposal of a specific entrepreneurial venture.	In PHYS498 write a paper, minimum length 2000 words, with at least five appropriate (journal, academic) sources, describing and assessing the laboratory research project. [This is the completion of the beginning of the research project begun in PHYS497.]
An assignment that demonstrates the student's ability to think critically about faith and vocation as it is expressed in a particular discipline met by a course or experience in the students' degree plan or major.	In PHYS497 write an essay as described under 'Writing Intensive Work' in the syllabus: "The topic will be an interdisciplinary topic relating faith to the student's life as a scientist/physicist. [See in Course Calendar Topic/Weeks 11, 12, 14.]
A comprehensive skills and accomplishments inventory reflecting the student's scholarship (research and creative activities), accomplishments, co-curricular activities, service, leadership, internships, integrative thinking, knowledge, etc.	This will be accomplished by each student developing a resume (<i>curriculum vita</i>) in PHYS497. [See Course Calendar Topic/Week 1 and Assignments/Weeks 3, 4, 6.]