

Sample Physics Major Program for Clark Honors College Students

	Physics Major Core Minimum of B.S.	Robert D. Clark Honor College	Required and Optional Related Subjects	Undergraduate Research Activities
First Year	Foundations of Physics I (251,252,253 or 251H, 252H, 253) Physics Lab 1 (290 each term) 15 credits	Honors College: Literature (221H, 222H, 223H) 12 credits	Math: Calculus (MATH 251, 252, 253) or Honors Calculus (MATH 261,262,263) If AP Calculus AB 4-5, Calculus III (253) and Intro Diff. Eqns (256) Chemistry: (CH 221, 222 or 225, 226) (can be taken year 2) 12-20 credits	{ For advanced students... ♦ Apply for NSF REU during winter term ♦ Complete REU, summer afterwards } ♦ Apply for NSF REU (see http://www.nsf.gov/crssprgm/reu/reu_search.cfm) during winter term ♦ Complete REU, summer afterwards ♦ Begin research with physics research group fall or winter term (c.f. http://hendrix2.uoregon.edu/~dlivelyb/UOPhys_UGrad/UO_Physics_UGrad_research.html) ♦ Continue research through following summer and fall. ♦ Write Honors College Thesis (in physics research area) during fall/winter terms. Defend during spring term.
Second Year	Foundations of Physics II (351,352,353) Intermediate Laboratory (390, one term) 16 credits	Honors College: History (231H, 232H, 233H) HC Colloquia (e.g., HC 421H, 431H, 441H) 16-24 credits	Math: Intro Diff. Eqns (256, Calc. Sev. Variables, 281, 282) Chemistry: (CH 221, 222 or 225, 226) (can be taken year 1) 12-20 credits	
Third Year	Electricity, Magnetism & Electromagnetism (412,413,422) 6 cr. hours upper-division labs (e.g., 431, 432) Research (401) 22 credits	HC Colloquia (e.g., HC 421H, 431H, 441H) to total 5 courses between 2 nd , 3 rd and 4 th year. 8-12 credits	Multicultural Courses (2 courses) Math Methods for Physics (410) { Optional electives in Mathematics (from Complex Variables, Partial Diff. Equations, Linear Algebra) } 12+ credits	
Fourth Year	Quantum Physics (414,415,417) Mechanics (411) Research (401) 20 credits	HC Colloquia (e.g., HC 421H, 431H, 441H) to total 5 courses between 2 nd , 3 rd and 4 th year. HC Thesis Prospectus (HC 477H) 6 credits	{ Optional electives in Physics (e.g., 410, 424-26, 427) and Mathematics (see above) } 4-12 credits	