

<b>[Mathematical Physics Track, 77 - 78 credits]</b>	
<b>Suggested Plan of Study</b> <b>[Physics, Kevin L. Haglin, Co-Chair]</b>	
<b>[B. Dalton, J. Harlander, K. Haglin, S. Kalia, Z. Liu]</b> <b>Updated: 04/17/2012</b>	
<b>First Semester</b>	<b>Second Semester</b>
PHYS 234 (5 cr.) Math 221 (5 cr.) ENGL 191 [Goal 1] (4 cr.) PESS 122 (1 cr.)	PHYS 235 (5 cr.) MATH 222 (4 cr.) ECE 102 or CSCI 260 (3 or 2 cr.) CMST 192 [Goal 1] (3 cr.)
<b>Third Semester</b>	<b>Fourth Semester</b>
PHYS 328 (3 cr.) PHYS 346 (3 cr.) MATH 312 (3 cr.) [Goal 7] (3 cr.) PHIL 194 [Goal 2] (3 cr.)	PHYS 329 (3 cr.) ENGR 332 or CHEM 210 (3 or 4 cr.) MATH 325 (3 cr.) MATH 321 (4 cr.) [Goal 5] (3 cr.)
<b>Fifth Semester</b>	<b>Sixth Semester</b>
PHYS 333 (3 cr.) PHYS 430 (2 cr.) PHYS 432 (2 cr.) ENGR 334 or PHYS 431 (3 cr.) [Goal 8] or MATH 423 (3 cr.)	ENGR 332 or CHEM 210 (3 or 4 cr.) PHYS 338 or PHYS 440 (4 cr.) [Goal 6] or MATH 427 (3 cr.) [Goal 5] (3 cr.)
<b>Seventh Semester</b>	<b>Eighth Semester</b>
ENGR 334 or PHYS 431 (3 cr.) [Goal 8] or MATH 423 (3 cr.) [Goal 10] (3 cr.) [Goal 9] (3 cr.)	PHYS 338 or PHYS 440 (4 cr.) [Goal 6] or MATH 427 (3 cr.) PHYS 415 or MATH 461 (1 to 3 cr.) [Goal 6] (3 cr.)

### Notes:

The Mathematics-Physics track requires the completion of at least 9 elective credits selected from PHYS 415, MATH 423, 427, 461.

Many Liberal Education Program (LEP) courses will satisfy more than one goal area. Students are encouraged to take courses that double-count in more than one goal area so they can take additional math/physics electives.

Students in this track will also earn a math minor.

Special Note on Upper division Courses. Most upper division ASTR, ENGR, and PHYS courses are offered every other year. It is important that students check with the department to determine which year and semester a specific course will be offered. The table below provides a general indication as to when upper division courses are offered, but these may change during any given semester.

<b>Every Semester</b>	PHYS 328
<b>Every Fall</b>	PHYS 333, PHYS 346, PHYS 430, PHYS 432
<b>Every Spring</b>	ENGR 425, PHYS 329
<b>Spring (Even Years)</b>	ASTR 312, PHYS 338, PHYS 436
<b>Spring (Odd Years)</b>	ASTR 427, ENGR 332, PHYS 435, PHYS 440
<b>Fall (Even Years)</b>	ASTR 323, ENGR 334, PHYS 445
<b>Fall (Odd Years)</b>	ASTR 311, PHYS 431, ENGR 447