

Sample Four Year Plan for Math/Physics Majors

This plan satisfies minimum requirements and assumes no previous credits in majors

| Year | Fall | Interim | Spring |
|-----------|---|--|--|
| FY | <u>P 130</u> M 120 _____ _____ | _____ | <u>P 131</u> M 126/8 _____ _____ |
| So | <u>P 232</u> M 220 _____ _____ | _____ | <u>P 244/245</u> M 230 _____ _____ |
| Jr | <u>P 374/384</u> (Prereq M230) M226 _____ _____ | _____ | <u>P 375/385</u> (Prereq M226, 230) M 242, 244, or 252 _____ _____ |
| Sr | <u>P 376/386</u> (Prereq M226) M 242, 244, or 252 _____ _____ | M 356 (300 level sequenced with M220) | Physics elective M330, 340 or 344 _____ _____ |

Bold courses satisfy Mathematics major requirements as part of the general requirements of Calculus I and II (or equivalent), Linear Algebra, and 7 courses above Linear Algebra, including:

- a. Two of 242, 244, 252
- b. Courses from three of the four perspectives: axiomatic, continuous, discrete, modeling
- c. Two level III, at least one mathematics and at least one that is sequenced with a level II
- d. Maximum of two CS or Statistics courses can be counted toward the math major

Underlined courses satisfy Physics Major Requirements (with Math Prerequisites☺)

- Physics 130 (concurrent or after Calculus I)
- Physics 131 (concurrent or after Calculus II)
- Physics 232, (concurrent or after Math 220)
- Physics 244/245. (concurrent or after Math 230).
- Physics 374 (after Math 230)..
- Physics 375/385 (after Math 226 and 230).
- Physics 376/386 (after Math 226)
- At least one additional elective above Physics 120

Recommended for Physics grad school:

- Physics 379: Statistical Physics and other Physics electives
- Math 244, 252, 262, 340, 344
- Numerical analysis
- Statistics 272, 322

Sample Four Year Plan for Math/Grad-Bound Physics Majors

This plan satisfies minimum requirements and assumes previous credit for Calc I

| Year | Fall | Interim | Spring |
|-----------|--|---------|---|
| FY | <u>P 130</u> M 126/8 _____ _____ | _____ | <u>P 131</u> M 220 _____ _____ |
| So | <u>P 232</u> M 226 or M 230 S 272 (prereq S212 or permission) _____ | _____ | <u>P 244/245</u> M 226 or M 230 _____ _____ |
| Jr | <u>P 374/384</u> (Prereq M 230) M 262 _____ _____ | _____ | <u>P 375/385</u> (Prereq M226, 230) M 244 _____ _____ |
| Sr | <u>P 376/386</u> (Prereq M226) M 252 S 322 or M330, 340, 344 _____ | _____ | <u>P 379</u> M330, 340 or 344 _____ _____ |

Bold courses satisfy Mathematics major requirements as part of the general requirements of Calculus I and II (or equivalent), Linear Algebra, and 7 courses above Linear Algebra, including:

- a. Two of 242, 244, 252
- b. Courses from three of the four perspectives: axiomatic, continuous, discrete, modeling
- c. Two level III, at least one mathematics and at least one that is sequenced with a level II
- d. Maximum of two CS or Statistics courses can be counted toward the math major

Underlined courses satisfy Physics Major Requirements (with Math Prerequisites☺)

- Physics 130 (concurrent or after Calculus I)
- Physics 131 (concurrent or after Calculus II)
- Physics 232, (concurrent or after Math 220)
- Physics 244/245. (concurrent or after Math 230).
- Physics 374 (after Math 230)..
- Physics 375/385 (after Math 226 and 230).
- Physics 376/386 (after Math 226)
- At least one elective above Physics 120

Nice for Physics grad school:

- P 379: Statistical Physics and other Physics electives
- Math 244, 252, 262, 340, 344
- Numerical analysis
- Statistics 272, 322

Sample Four Year Plan for Math/Physics Majors with MathEd

This plan satisfies minimum requirements and assumes no previous credits in majors

| Year | Fall | Interim | Spring |
|-----------|--|---|---|
| FY | <ul style="list-style-type: none"> ○ <u>P130</u> ○ *M120 ○ ○ | <ul style="list-style-type: none"> ○ | <ul style="list-style-type: none"> ○ <u>P 131</u> ○ *M126/8 ○ ○ |
| So | <ul style="list-style-type: none"> ○ <u>P 232</u> ○ *M220 ○ Ed 290 ○ — | <ul style="list-style-type: none"> ○ | <ul style="list-style-type: none"> ○ <u>P 244/245</u> ○ M230 ○ *M232 ○ |
| Jr | <ul style="list-style-type: none"> ○ <u>P 374/384</u> (Prereq M230) ○ M226 ○ <i>Ed 375 (1/2)</i> ○ <i>Ed 330</i> ○ | <ul style="list-style-type: none"> ○ <i>Education Interim</i> | <ul style="list-style-type: none"> ○ <u>P 375/385</u> (Prereq M226, 230) ○ *M244 or *M252 ○ <i>Ed 372 (1/2)</i> ○ ○ |
| Sr | <ul style="list-style-type: none"> ○ <u>P 376/386</u> (Prereq M226) ○ *M244 or *M252 ○ *M262 ○ | <ul style="list-style-type: none"> ○ *M 356 (300 level sequenced with M220) | <ul style="list-style-type: none"> ○ <u>Physics elective</u> ○ M330, 340 or 344 or petition ○ *S272 ○ <i>Ed 350</i> |
| | <ul style="list-style-type: none"> ○ <i>Student Teaching and other Education Courses</i> | <ul style="list-style-type: none"> ○ | <ul style="list-style-type: none"> ○ |

Bold courses satisfy mathematics major requirements as part of the general requirements of Calculus I and II (or equivalent), Linear Algebra, and 7 courses above Linear Algebra, including:

- a. Two of 242, 244, 252 (*244 and *252 required for teacher candidates).
- b. Courses from three of the four perspectives: axiomatic, continuous, discrete, modeling
- c. Two level III, at least one mathematics and at least one that is sequenced with a level II (*M356 is required for teacher candidates)
- d. Maximum of two CS or Statistics courses can be counted toward the math major
- e. *Teacher candidates must include Math 232, 244, 252, 262, 356 and Statistics in major.

Underlined courses satisfy Physics Major Requirements (with Math Prerequisites☺)

- Physics 130 (concurrent or after Calculus I)
- Physics 131 (concurrent or after Calculus II)
- Physics 232, (concurrent or after Math 220)
- Physics 244/245. (concurrent or after Math 230).
- Physics 374 (after Math 230)..
- Physics 375/385 (after Math 226 and 230).
- Physics 376/386 (after Math 226)
- At least one additional elective above Physics 120

Italicized courses are part of the requirements for Education courses and experiences. See Education requirements.