Minors & Double Majors Fact Sheet

The Minors and Double Majors listed below are optional (not required).

Mathematics MINOR

2 electives: MATH 313 (Linear Algebra) or MATH 310 (Applied Linear Algebra) plus 1 MATH elective

Planetary Science MINOR

6 electives: 3 Core PTYS electives (PTYS 403, 407, 411), 1 elective selected from 300 and 400 level PTYS
classes, plus 2 additional electives approved by a PTYS minor adviser. Note: PTYS 407 requires 2 semesters of
Chemistry (103/104 AB) as a prerequisite (CHEM 151/152 or AP credit also count).

Astrobiology MINOR

6 electives: 3 Core Astrobiology electives (MCB315, AST 406, AST 475, AST 488, PTYS 450, GEOS 484),
plus 3 300-500 level electives in relevant topics approved by an Astrobiology Minor advisor.
Please check http://astrobiology.arizona.edu for additional information.

Optics MINOR

6 electives: OPTI 201 R/L and OPTI 202 R/L plus 4 choices from OPTI 300 - 490 level courses.

Mathematics Double MAJOR

7 electives: Additional requirements for the Applied Mathematics major are MATH 313, 323, 422, and 485.
In addition, 2 Electives must be filled with one pair of classes: MATH 454 & 456 or MATH 464 & 466
or MATH 475A & 475B, plus 1 more MATH 400-level class. MATH 355 is recommended instead of 254.

Physics Double MAJOR

7 electives: Additional requirements for the Physics major are PHYS 332, 381, 382 472, and 49X (3 units) plus
2 additional electives chosen from PHYS 320, 405, 422, 431, 450, 460, 468, 469, 473, 476, or 483.