Mathematics - Integrated Credential Option, B.S.

DEPARTMENT

MN in Mathematics, Minor
BS in Mathematics - General Math Option, B.S.
BS in Mathematics - Pure Math Option, B.S.
MN in Statistics, Minor
BS in Mathematics - Applied Math Option, B.S.
BS in Mathematics - Statistics Option, B.S.
BS in Mathematics - Teaching Option, B.S.
BS in Mathematics - Integrated Credential Option, B.S.
MS in Mathematics, M.S.
CRED in Single Subject Credential - Mathematics

REQUIREMENTS

Department of Mathematics

Bachelor of Science Degree Requirements Mathematics - Integrated Credential

The requirement for entrance to the major and minor programs is completion of two years of algebra as well as courses in geometry and trigonometry, or a sequence of courses containing their equivalents, such as MATH 3 and 5. It is strongly recommended that such study be completed before entrance to the university.

1. Major requirements (61 units)
   Core curriculum (35 units)
   MATH 75 (or MATH 75A and MATH 75B), MATH 76, MATH 77, MATH 81 (15 units), MATH 101 (4 units), MATH 111 (4 units), MATH 151, MATH 152 (8 units), MATH 171 (4 units)
   Option specific electives (18 units)
   MATH 143 (4 units), MATH 145 (3 units), MATH 149S (4 units), MATH 161 (3 units)
   MATH 123 (3 units), MATH 193D (1 unit)
   Additional requirements (8 units)
   CSCI 40 (4 units), PHYS 4A (3 units), PHYS 4AL (see note 1) (1 unit)

2. General Education requirements (48 units) (see notes 1, 3, 4 and 5)

3. Credential requirements (34 units)
   CI 151 (3 units)
   CI 152 (3 units)
   CI 161 (3 units)
   LEE 157 (3 units)
   EHD 154A (1 unit)
   EHD 155A (4 units)
   EHD 155B (10 units)
   SPED 158 (3 units)
   LEE 156 (3 units)
   EHD 154B (1 unit)

4. Other requirements (9 units)
   American Government and Institutions (PLSI 2), Multicultural and International (MI), and Upper-division writing. (see note 2)

5. Sufficient elective units to meet required total units (varies)

6. Total (134 units)*
   * G.E. and MI courses can be double-counted with major requirements. See advisor for details.
The culminating experience for the Integrated Credential option is MATH 149S.

**Advising Notes**

1. PHYS 4AL is required for the Integrated Credential Option. PHYS 4A and 4AL will satisfy the General Education (G.E.) Breadth requirement.
2. Students in the Integrated Credential Option are required to take ANTH 105W as a writing course that also satisfies the Multicultural/International Requirement.
3. Three units of MATH 75 (or MATH 75A) will satisfy the G.E. Foundation B4 requirement and MATH 123 will satisfy G.E. Area IB requirement. CI 152 is double counted as a Credential requirement and G.E. ID requirement for the Integrated Credential option.
4. Thirteen units of courses are double counted (B1/3, B4, IB, and ID), and 3 units of G.E. requirements are waived (A3) for the Integrated Credential Option.
5. See Mathematics Road Map at [http://www.fresnostate.edu/degreeroadmap/](http://www.fresnostate.edu/degreeroadmap/)
6. **Advising Requirements.** It is strongly recommended, to all math majors, to have an advising session at least once a semester. See the department chair for assignment to an advisor.
7. **Grade Requirements.** All courses required as prerequisites for a mathematics course must be completed with a grade of C or better before registration will be permitted. All courses taken to fulfill major or minor requirements must be completed with a grade of C or better.

**FACULTY**

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the faculty pages.
The faculty pages are updated by the department or program.