

CSU Project on Lower Division Requirements in the Majors

[Renamed: Lower Division Transfer Patterns (LDTP)]

Adopted Unanimously by the Council of Mathematics Department Chairs April 30, 2004
Summary for Meeting Lower-division Requirements for a Mathematics Major B.A. or B.S.
Degree Programs on CSU Campuses through Courses in the California
Articulation Number System.

Preface: Careful planning by a community college student can make transferring to a CSU with an intended major in Mathematics much easier. In particular, the courses described below will be accepted by all CSU campuses for credit and as satisfying in part the requirements for completing a mathematics major.

Statewide: All CSU campuses expect transfer students to have completed the following:

- All areas of General education except the area of the Physical Science. [The Area of General Education Physical Science is required for all campuses, but is subject to some restrictions under local control.]
- Three semesters or four quarters of calculus. Students who take the sequence of courses in CAN MATH SEQ C (Calculus I - III (semester) or Calculus I-IV (quarter) will have these courses accepted by all CSU campuses as satisfying the lower division requirements in calculus. The first of these courses counts toward the statewide CSU requirements for general education. The other courses count specifically toward the units required for the major. [This means 3 units count toward the required 36 GE units and 9 units count toward the remaining statewide units allowed.]

Local: Mathematics programs also expect transfer students to have completed one or more additional courses besides calculus as well as the area of Physical Science for General Education. These courses and possible restrictions on what courses may be taken to satisfy the General Education area of Physical Science are determined by the local campuses as that part of the total 60 units allotted for local campus determination. **These locally determined courses are subject to the approval of the local campuses.** A tentative list of courses and campuses that will accept them as satisfying local lower division major requirements for Mathematics when this document was written, appear below. Local requirements and programs change, so check with specific CSU campuses for an up-to-date list.

List of Potential Courses for Local Approval (not necessarily complete).

Differential Equations: (CAN MATH 24)

Linear Algebra: (CAN MATH 26)

Computer Programming: (CAN CSCI 4, 6, 10, 12, 14, 16, 18, 20 or 22)

Logic (CAN Phil 6)

General Education Physical Science:

Calculus Based Physics I: Mechanics (CAN PHYS 8).

Calculus Based Physics II: Electricity & Magnetism (CAN PHYS 12)

Any General Education Physical Science course:

Some CSU campuses have additional lower division math requirements that may be met at a community college, but the courses may not have CAN numbers. For example, a course in statistics or a course in mathematical proofs that serves as a bridge to upper division math courses may be transferable. Further information about these courses may be obtained from the local CSU math departments.

