# CENTRAL CONNECTICUT STATE UNIVERSITY
## *School of Education and Professional Studies*
### B.S.ED.  (Grades 7 - 12) 120 Credits
### MATHEMATICS

Name:                    ID#:                    Matriculation Semester:                    Date:

| **GENERAL EDUCATION   (44-46 credits)** | Crs. | Grd. |
|---|---|---|
| *Some General Education courses can also fulfill Related Requirements* | | |
| **STUDY AREAS** | | |
| **Study Area I   Arts & Humanities  (9 credits)** | | |
| ENG literature | 3 | |
| | 3 | |
| | 3 | |
| **Study Area II    Social Sciences  (9 credits)** | | |
| HIST | 3 | |
| | 3 | |
| | 3 | |
| **Study Area III    Behavioral Sciences  (6 credits)** | | |
| | 3 | |
| | 3 | |
| **Study Area IV    Natural Sciences  (6 or 7 credits)** | | |
| | 3 | |
| | 3 or 4 | |
| **SKILL AREAS** | | |
| **Skill Area I    Communication Skills  (6 credits)** | | |
| WRT 105 & 105P or WRT 110  Freshman Composition | 3 | |
| | 3 | |
| **Skill Area II    Mathematics Requirement  (6 credits)** | | |
| Course can be double-counted in major | X | X |
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| **Skill Area III   Foreign Language Proficiency Requirement (check one)** | | |
| - completion of a level-three high school foreign language | | |
| - passed a standardized foreign language exam | | |
| - completion of 112 or 114 foreign language course | | |
| - successful completion of an upper level foreign language course | | |
| - demonstration of native proficiency in a language other than English | | |
| **Skill Area IV    University Requirement   (2 or 3 credits)** | | |
| PE 144 required for students matriculating with fewer than 15 credits | 2 or 3 | |

| **MATHEMATICS MAJOR   (48 credits)** | Crs. | Grd. |
|---|---|---|
| *Grade of C- or better required* | | |
| MATH 120  Problem Solving I | 1 | |
| MATH 152  Calculus I | 4 | |
| MATH 211 Clinical Experience in Mathematics Education I | 1 | |
| MATH 218  Discrete Mathematics | 4 | |
| MATH 220  Problem Solving II | 1 | |
| MATH 221  Calculus II | 4 | |
| MATH 228  Introduction to Linear Algebra | 4 | |
| MATH 313  Number Systems from an Advanced Viewpoint | 3 | |
| MATH 320  Problem Solving III | 1 | |
| MATH 327 Curriculum & Technology in Secondary Math I | 3 | |
| MATH 328 Curriculum & Technology in Secondary Math II | 3 | |
| MATH 366  Introduction to Abstract Algebra | 4 | |
| MATH 377 Introduction to Real Analysis | 4 | |
| MATH 383  College Geometry | 3 | |
| STAT 314  Introductory Statistics for Secondary Teachers | 3 | |
| 5 additional credits from MATH 222, 311, 344, 355, 411, 421, 422 440, 465, 468, 469, 477, 491, STAT 315, 416, 453, 455, 456, 465 | | |

| **RELATED REQUIREMENTS  (20-21 credits)** | | |
|---|---|---|
| *Required for the Program & some can also fulfill General Education* | | |
| *Grade of C- or better required* | | |
| **SCIENCE RELATED REQUIREMENTS  (8 credits)** | | |
| PHYS 125 (ST IV) and PHYS 126 (ST IV)          or | 4 | |
| CHEM 161 & 162 (ST IV) and CHEM 200 & 201 (ST IV) | 4 | |
| **COMPUTER SCIENCE RELATED REQUIREMENTS  (3-4 credits)** | | |
| CS 151 or CS 213 | 3 or 4 | |
| **ADDITIONAL REQUIREMENTS  (9 credits)** | | |
| HIST 161  or  HIST 162 (ST II) | 3 | |
| PSY 136 Life Span Development (ST III) | 3 | |
| EDF 215 Education in a Multicultural Society (ST III) | 3 | |

| **ELECTIVES (if necessary to reach 120 credits)** | | |
|---|---|---|
| | | |
| | | |
| | | |
| International Requirement | | |
| International Requirement | | |
| First Year Experience Requirement | | |

| **PROFESSIONAL EDUCATION   (27 credits)** | Crs. | Grd. |
|---|---|---|
| *All courses require admission to the Professional Program* | | |
| *and a grade of C or better* | | |
| SPED 315  Intro. to Educating Learners with Exceptionalities | 3 | |
| EDTE 316  Principles of Learning in Diverse Settings (7-12) | 4 | |
| LLA 440  Literacy in the Secondary School | 3 | |
| EDSC 425  Multicultural, Interdisciplinary Teaching (7-12) | 3 | |
| MATH 413  Teaching of Math in the Secondary School | 4 | |
| EDSC 435  Secondary Education Student Teaching | 9 | |
| MATH 426  Student Teaching Seminar | 1 | |