Mathematics-Mathematics Education Concentration

ETSU R2T Program Redesign: Program Summary for Secondary Mathematics

**Initial Teacher Licensure Program:** Suggested course sequence to complete the entire program in four years

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| Semester 1 |  | **Semester 2** |  | **Summer after Sem. 2** | | **Semester 3** |  | **Semester 4** |  |
| ENGL 1010 Critical Reading | 3 | EDFN 2100 Orient Prof Ed | 1 | MATH 3000 Math Reasoning | 3 | EDFN 2300 Foundations | 2 | SPED 2300 Excep. Learners | 3 |
| MATH 1910 Calculus I | 4 | ENGL 1020 Critical Thinking | 3 |  |  | Literature | 3 | BIOL 1120 or PHYS 2120 | 4-5 |
| Fine Arts | 3 | MATH 1920 Calculus 2 | 4 | HIST 2020 US Since 1877 | 3 | MATH 2110 Calculus 3 | 4 | MATH 2090 Math Computing | 2 |
| Social/Behavioral Science | 3 | MATH 2010 Linear Alg | 3 |  | | BIOL 1110 or PHYS 2110 | 4-5 | MATH 3040 History of Math | 3 |
| General education Science | 4 | General education Science | 4 |  | | MATH 2050 Probability & Statistics – Calculus based | 3 | MATH 4157 Intro to Modern Geometry | 3 |
| CSCI 1100 (or UIT Exam) | 3 | HIST 2010 US to 1877 | 3 |  | |  |  |  |  |
|  |  |  |  |  | |  |  |  |  |
| Total 17-20 hrs. | | **Total 18 hrs.** | | **Total 6 hrs.** | | **Total 16-17 hrs.** | | **Total 15-16 hrs**. | |

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| Summer after Semester 4 | | Semester 5 | | Semester 6 | | Summer after Semester 6 |  | Semester 7 (Courses offered Fall Only) | | Semester 8 (Spring Only) | |
| MATH 2120 Differential Equations | 3 | EDFN 3301 Issues in Ed (WI) | 3 | MATH 4010 Undergraduate Research | 3 | \*\*CUAI 4571 Preresidency: Classroom/Instructional Management in Middle and Secondary Schools | 1 | \*\*CUAI 4416 Residency I  Sec Curriculum & Methods | 3 | \*\*CUAI 4580 Residency II Sec Student Teaching (OI) | 12 |
|  |  | EDFN 3310 Ed Psych | 3 | MATH 4267 Numerical Linear Algebra | 3 |  | | \*\*CUAI 4426 Residency I  Sec Curriculum & Methods Field Experience | 1 |  |  |
|  |  | MATH 3150 Math Modeling | 3 | Social/Behavioral Science | 3 |  | | \*\*MATH 4417 Residency I  Teaching Secondary Math (OI) | 3 |  |  |
|  |  | MATH 3340 Advanced Combinatorics & Problem Solving | 3 | SPCH 2320 Argumentation and Debate | 3 |  | | \*\*READ 4437 Residency I  Reading Instruction in Middle/Secondary Schools (WI) | 3 |  |  |
|  |  | MATH 4127 to Intro Modern Algebra | 3 | PHIL 2640 | 3 |  | | \*\*MEDA 3570 Residency I  Instructional Technology (TI) | 2 |  |  |
|  |  |  |  |  |  |  | | MATH 4217 Analysis I | 3 |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |
| Total 3 hrs. | | **Total 15 hrs.** | | **Total 15 hrs.** | | **Total 1 hr.** | | **Total 15 hrs.** | | **Total 12 hrs.** | |

Total semester hours for degree program: 120-122 (Residency II is for licensure and is not part of the degree.) *Revised September 5-6, 2012; further revised Oct. 16, 2013*

The program assumes that a student is ready to begin with Calculus I. A student who is not prepared to take Calculus I will need to take precalculus courses (MATH 1710-1720), which may lengthen the required time to graduate. Most upper-level math courses are only offered in fall or spring; check the catalog and with your advisor for details.

\*\*Courses marked with a double asterisk must be taken in the semester indicated.

NOTES:

CUAI 4571 Preresidency: (1 CH) Must be taken summer before Senior Fall semester.

**Oral Communication**Students must complete a minimum of **two** oral communication-intensive (ICOM) courses. At least one of these courses must be in the student’s major or minor.   (NOTE: Any course taken in the department in which a student is majoring counts as in the major.)  

**Information Technology** Students must complete a minimum of **one** information technology-intensive (ITEC) course in the student’s  major or minor.

**Writing** Students must complete a minimum of **four** writing-intensive (IWRT) courses. At least two of these courses must be in the student’s major or minor.  At least two of the four courses must be at the 3000-4000 level.

SPCH 2320 when used to fulfill general education requirements cannot be used to meet ICOM.