

<b>College:</b>	<b>College of Science and Mathematics</b>
<b>Proposed Program:</b>	<b>BS/MAT Dual Certification Program: Mathematics &amp; Teacher of Students with Disabilities</b>
<b>Comment:</b>	<b>Completion of program results in BS in Mathematics, MAT, certification in Mathematics (P-12) and certification in Teacher of Students with Disabilities.</b>

<b>General Education Requirements (2002)</b>	<b>38</b>
A. New Student Seminar (MATH 102)	1
B. Interdisciplinary Core	
Scientific Issues	3
National and Global Issues	3
C. Communication	
College Writing I	3
College Writing II	3
Fundamentals of Speech: SPCM 101	3
D. Fine and Performing Arts	3
F. Humanities	
World Lit or General Humanities	3
Philosophy and Religion (EDFD 220)	3
G. Computer Science (CMPT 183)	↔
H. Mathematics (fulfilled by major)	↔
I. Natural/Physical Science Lab (PHYS 191)	↔
J. Physical Education	1
K. Social Science	
American/European History (EDFD 221)	3
Non-Western Cultures	3
Social Science (EDFD 200)	3
L. General Education Elective (CURR 210)	3
<b>World Languages and Cultures Requirement</b>	<b>3-9</b>
I. World Languages	3-6
II. World Cultures	0-3

<b>Major Requirements</b>	<b>40</b>
<b>A. Required Mathematics Courses</b>	<b>25</b>
MATH 122 Calculus I	4
MATH 221 Calculus II	4
MATH 222 Calculus III	4
MATH 335 Linear Algebra	4
MATH 340 Probability	3
MATH 350 College Geometry	3
MATH 431 Foundations of Modern Algebra	3
<b>B. Elective Mathematics Courses</b>	<b>12</b>
(Choose 12 credits from MATH 398-469, 471, 475, 480-499 & STAT 440-449, 490-499). Teacher Education Program admission required for MATH 471.	
MATH 398 Vector Calculus	3
MATH 420 Differential Equations	4
MATH 421 Partial Differential Equations	3
MATH 423 Complex Variables	3
MATH 425 Advanced Calculus I	3
MATH 426 Advanced Calculus II	3
MATH 433 Theory of Numbers	3
MATH 436 Elements of Logic	3
MATH 450 Foundations of Geometry	3
MATH 451 Topology	3
MATH 460 Intro. to Applied Mathematics	3
MATH 463 Numerical Analysis	3
MATH 464 Operations Research I	3
MATH 465 Operations Research II	3
MATH 466 Financial Mathematics I	3
MATH 467 Financial Mathematics II	3

MATH 468 Fluid Mechanics	3
MATH 469 Mathematical Modeling	3
MATH 471 Selected Topics in Modern Math.	3
MATH 475 History of Mathematics	3
MATH 485 App. Combinatorics/Graph Theory	3
MATH 487 Intro to Math Cryptography	3
MATH 490 Honors Seminar in Mathematics	3
MATH 495 Topics in Math for Undergraduates	1-3
MATH 497/8 Undergrad. Research in Math.	1-3
STAT 330 Fundamentals of Modern Statistics I	3
STAT 441 Statistical Computing	3
STAT 442 Fund. Of Modern Statistics II	3
STAT 443 Intro. to Mathematical Statistics	3
STAT 495 Topics in Statistical Science	1-3
STAT 497 Undergrad. Research in Stat. Science	1-3
<b>Required Collateral Courses</b>	<b>11</b>
PHYS 191 University Physics I	4
PHYS 192 University Physics II	4
CMPT 183 Found. of Computer Science I	3
<b>Free Electives</b>	<b>0-3</b>
<b>Teacher Education Program Requirements</b>	<b>28</b>
<b>PRE-PROFESSIONAL SEQUENCE</b>	<b>12</b>
( Freshman Year/First Semester Sophomore Year)	
EDFD 200 Psych. Foundations of Education	↔
EDFD 220 Philosophical Orientation to Education	↔
EDFD 221 Historical Found. of American Education	↔
CURR/READ/EDFD 210 Public Purposes of Education: Democracy & Schooling	↔
<b>PROFESSIONAL SEQUENCE TAKEN AS UG</b>	<b>28</b>
● UNDERGRADUATE LEVEL COURSES.....	19
● GRADUATE LEVEL COURSES (TAKEN AS UG)...	9
<b>(First Semester Sophomore Year)</b>	
Apply to the Teacher Education Program.	
No Professional Sequence courses taken this semester.	
<b>(First Semester Junior Year)</b>	
SPED/ECEL 279 Theories/Models Inclusive Education	3
CURR/READ/EDFD 312 Educating ELLs	1
CURR/READ/EDFD 305 Teaching Equity Diversity	3
<b>(Second Semester Junior Year)</b>	
SPED 367 Inclusive Methods	3
READ 411 Language and Literacy Across Curriculum	3
<b>(First Semester Senior Year)</b>	
SPED 469 Inclusive Methods Middle/Sec. Schools	3
SPED 488 Dev. Pro social Behavior Inclusive Class	3
<b>(Second Semester Senior Year)</b>	
*SPED 584 Assessment/Eval. Inclusive Classroom	3
*SPED 585 Technology in the Inclusive Classroom	3
*Graduate content course (advisor approval required)	3
* Count for credit on both the UG and Graduate levels.	
<b>TOTAL UNDERGRADUATE CREDITS</b>	<b>120-123</b>

<b>PROFESSIONAL SEQUENCE TAKEN AS A GRADUATE STUDENT</b>	<b>27</b>
<b>(Summer)</b>	
SPED 591 Teaching Organization and Study Skills for the Inclusive Classroom	3
SPED 586 Transition Services For Students With Disabilities	3
<b>(Fall)*</b>	
MATH 572 or MATH 573	3
CURR 527 Fieldwork	3
CURR 526 Teaching for Learning I	3
SPED/ECEL 691 Issues, Trends Research in Inclusive Education	3
<b>(Spring)**</b>	
CURR 529 Student Teaching	6
CURR 543 Teaching for Learning II	3

<b>TOTAL GRADUATE LEVEL CREDITS</b>	<b>36</b>
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**The graduate program of study only is offered in the semester sequence shown above, beginning with summer courses and culminating with student teaching in the spring semester.**

\* A Fieldwork Application must be submitted the semester prior to the Fieldwork/Teaching For Learning I semester. The application is due March 1 for fall Fieldwork/Teaching For Learning I. Late applications cannot be accepted. All courses listed in the undergraduate program as well as SPED 591 and SPED 586 must be completed satisfactorily before being permitted to enroll in Fieldwork/Teaching For Learning I.

\*\* A student teaching audit is conducted by the Center of Pedagogy to verify that all student teaching requirements have been met prior to the student teaching semester. All requirements must be met by January 8<sup>th</sup> for spring student teaching. Requirements include successful completion of all program coursework, submission of passing Praxis scores for required tests and acceptable overall/major GPA as outlined in the Teacher Education Program Handbook.

### **ADDITIONAL STUDENT RESPONSIBILITIES**

Students are responsible for completing additional requirements necessary to be recommended to the state of New Jersey for instructional certification and for being aware of University policies and deadlines. These include:

**Physiology and Hygiene requirement**—must pass University-approved course or University-approved test.

**Praxis Exam**—must pass all state-required Praxis II exams for the certification area prior to student teaching.

**Advisement**—must meet with advisors each semester to review registration and completion of degree requirements.

**Teacher Education Program Handbook**—must be familiar with policies, procedures, and deadlines of the Teacher Education Program.

**Final Audit**—must file the proper Audit forms in the Office of the Registrar for graduation *and* certification: October 1 for May program completion; March 1 for August program completion; June 1 for January program completion.