# B.S. in Mathematics with Certification Grades 7-12

# Student Handbook 2021-2022

# An overview of the four gates

SOUTHERN CONNECTICUT STATE UNIVERSITY

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#### **PREFACE**

This handbook has been created for you, the candidate majoring in mathematics and pursuing teaching certification in grades 7-12. It contains information you will need to successfully complete your program. Please keep this handbook in a convenient place. It should be used as a reference to guide you through your program at SCSU. However, please remember to always consult with your advisor or the Mathematics Department Certification Coordinator if you have questions.

We wish you the best of success in your studies, and in your future teaching!

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#### THE FOUR GATES: AN OVERVIEW

Each certification candidate, regardless of subject area, must pass through a set of four gates to complete his/her certification program. Every department has developed its own set of gates for its certification candidates.

In mathematics, the four gates consist of:

- 1. Entry into the certification program
- 2. Midpoint evaluation in the program
- 3. Pre-student teaching evaluation in the program
- 4. Completion of the program

In addition, a Mathematics GPA (MAT GPA) will be calculated. Note that for certification candidates, the MAT GPA is calculated using MAT 150 and all required MAT courses in the major that count towards graduation. (When computing the MAT GPA, only one grade replacement will be dropped). This MAT GPA will be calculated by the Mathematics Certification Coordinator and, in most cases, will not match the candidate's overall GPA.

In this Handbook, we will explain each of the four gates in detail.

<u>Reminder</u>: Always consult with your advisor or the Mathematics Department Certification Coordinator if you have questions.

#### GATE 1: ENTRY INTO THE PROGRAM

In Gate 1, candidates apply to the College of Education. This application is required for any candidate wishing to become certified in any subject.

The following competencies must be met before a candidate can apply to the College of Education and complete this gate (a checklist for Gate 1 is in Appendix A):

#### **Course Requirements**

Each candidate must complete MAT 150 (*Calculus I*), and MAT 151 (*Calculus II*) with grades of C+ or higher in each course. Each student must pass EDU 200 (*Teachers, Schools and Society*).

In those MAT courses which the student applies toward the major, he/she must have a minimum GPA of 2.3, no grade below a 'C-', and in at least 50% of the courses must have a grade of 'B-' or better. Note that for certification candidates, MAT GPA is calculated using any mathematics MAT 150 and above required for the B.S. Mathematics 7 - 12 major.

#### Fingerprinting and Background Check

Each school/school district placing students for observation, field experience, practicum, internship, or any school-based placement will determine their own background check/fingerprinting requirement. More information regarding background checks will be provided by the College of Education.

#### **GPA Requirements**

Each candidate must have a minimum of 2.7 GPA (grade point average) at the time of application to the College of Education. This GPA includes course work taken at other universities. Hence, if a candidate has transferred in courses from other universities and the *overall* GPA from those universities and SCSU is below 2.7, the candidate is not eligible to pass through Gate 1, and therefore cannot apply to the College of Education. The candidate must also maintain a Math GPA  $\geq$  2.3 in mathematics courses in the major that count toward graduation.

#### PRAXIS Core Exam, SAT, or ACT

All candidates must take the Praxis Core, SAT or ACT to satisfy the State Board of Education competency examination requirement. Candidates who do not achieve a satisfactory score on Praxis Core, SAT, ACT, or GRE will be required to participate in remediation that conforms to forthcoming guidelines.

Note that while the PRAXIS Core exam no longer has a minimum score, the university is required to address deficiencies in students with low test scores. The Certification Coordinator will contact you if you fall in that category.

#### The Admission Essay

Each candidate must submit an essay in response to the prompt provided by the College of Education. The essay is submitted electronically on Tk20. Details about the requirements of the essay are below:

**Prompt**: In a concise and carefully crafted essay, explain why you want to become a teacher and discuss two to three qualities of a good teacher. Provide support for each of these qualities by explaining how they affect student learning.

The essay must be typed using Times New Roman or similar font, 12-point, single-spaced, and two pages long (approximately 1000 words). The essay serves as a writing sample, so it is important to submit a carefully reviewed, coherent paper.

#### The Department Interview

Each candidate must pass an interview with the Mathematics Department Certification Coordinator and one member of the Mathematics Department. The interview will only be scheduled once you have submitted your essay on Tk20 and *PRAXIS Core* (or equivalent results). The interview will usually not last more than 30 minutes.

This may be our first chance to get to know you better. Here are some tips to help you with the interview:

- Review your essay before the interview, since you may be asked to respond to various parts of it.
- Dress appropriately for your interview. Casual clothing is acceptable, but remember: you want to create a good impression.
- Arrive on time for your interview. If you need to cancel the interview for any reason, let us know as soon as possible via email or voicemail.

Feel free to ask questions during the interview and stay relaxed. We are here to help you.

Upon completion of the interview, each candidate will be advised to continue with the program, advised to continue with conditions, or advised to withdraw from the program.

#### Applying to the College of Education

If you are advised to continue with the program or continue with conditions, your interview results will be uploaded to your Tk20 application. The College of Education then reviews your completed application and takes the final decision on whether or not you are accepted in the Teacher Certification Program. You will be notified of the College of Education's decision shortly after the application is complete. If accepted, this will complete Gate 1.

Important Note: Due to Connecticut State Department of Education requirements, students applying for certification programs *must not register for more than two courses in professional education* before they have received official notification of admission as a candidate to the certification program. (Professional courses include EDU 200, SED 225 (or SED 482), EDU 316, EDU 413; RDG 470; and EDU 471). *Failure to comply with this policy may result in your application to the College of Education being denied.* 

#### GATE 2: MIDPOINT EVALUATION IN THE PROGRAM

In Gate 2, candidates' progress in the program is assessed during a follow up meeting with the certification coordinator or during the registration period. The following competencies must be met before a candidate can complete this gate (a checklist for Gate 2 is in Appendix B):

#### **Course Requirements**

Candidates must complete MAT 250 - Foundations of Mathematics, MAT 252 - Calculus III, and MAT 372 - Linear Algebra, and EDU 316 - Psychology for the Educator.

Candidates are not allowed any grade below C- in any math course that counts toward their majors. Candidates must earn a grade of B- or better on at least 50% of their math course grades that count toward their major.

#### **GPA Requirements**

Candidates are required to maintain a general GPA  $\geq$  2.7 and a Math GPA  $\geq$  2.3 in mathematics courses in the major that count toward graduation.

#### GATE 3: PRE-STUDENT TEACHING IN THE PROGRAM

In Gate 3, candidates apply for student teaching. This needs to take place in the spring semester prior to student teaching, which will take place the following spring.

The following competencies must be met before or during the last fall semester prior to student teaching. Otherwise, the candidate will not be allowed to student teach (a checklist for Gate 3 is in Appendix C):

#### **Course Requirements**

All required courses, besides MAT 494 – Student Teaching (Mathematics) and MAT 496 – Student Teaching Seminar (Mathematics) must be completed prior to the spring semester in which you will be student teaching.

No student will be allowed to student teach if they have not completed all required coursework, and no student will be allowed to take any course other than MAT 496, *Service Learning for Mathematics Education*, while student teaching.

Candidates are not allowed any grade below C- in any math course that counts toward their majors. Candidates must earn a grade of B- or better on at least 50% of their math course grades that count toward their major.

#### **GPA Requirements**

Candidates are required to maintain a general GPA  $\geq$  2.7 and a Math GPA  $\geq$  2.3 in mathematics courses in the major that count toward graduation.

#### **Applying for Student Teaching**

The application for student teaching is done through the Tk20 system (see page 13) in the spring semester prior to student teaching, which will take place the following spring. Each candidate will then be notified once a placement has been made.

#### **PRAXIS II**

Each candidate is encouraged to pass PRAXIS II prior to student teaching. This is a state required content examination for certification. This exam cannot be waived. In mathematics, the required exam is 5161. Information on registering for this exam can be found at <a href="http://www.ets.org/praxis/prepare/materials/5161">http://www.ets.org/praxis/prepare/materials/5161</a>

#### **SCSU Online Modules**

Each candidate must take two online modules: (1) Behavioral Difficulties (Social and Emotional Development) and (2) Dyslexia These modules will be available on Blackboard. Ask the Certification Coordinator for more information when it is time to take them.

#### SCSU Math Certification Readiness Exam - Online Exam

Each candidate must achieve a score on each of the four modules of the Readiness Exam at the Target or Acceptable level. Each question on the exam receives a score of 3 (Target), 2 (Acceptable), or 1 (Unacceptable). To receive an overall score of Target on a module, the candidate must have an average of 2.6 or higher. To receive an overall score of Acceptable on a module, the candidate must have an average greater than or equal to 2.0 and less than 2.6. An overall average below 2.0 is considered Unacceptable. Candidates may retake any module two times, each time after a waiting period of 30 days. The candidate must receive permission from the Certification Coordinator to retake the exam after that.

#### GATE 4: COMPLETION OF THE PROGRAM

In Gate 4, candidates complete Student Teaching and are ready to apply for certification.

The following competencies must be met before a candidate can apply for certification and complete this gate (a checklist for Gate 4 is in Appendix D):

#### **Course Requirements**

Each candidate must pass MAT 494, Student Teaching (Mathematics), and MAT 496, Student Teaching Seminar (Mathematics).

#### **GPA Requirements**

Candidates are required to maintain a general GPA  $\geq$  2.7 and a Math GPA  $\geq$  2.3 in mathematics courses in the major that count toward graduation.

#### **Completing the Program**

Upon completion of all the requirements for Gate 4, the candidate has completed the program, and is now eligible to graduate and apply for certification.

#### edTPA Assessment

Candidates must take and pass edTPA, a state mandated assessment. This assessment is completed during student teaching and is connected to the MAT 496 portfolio required.

#### **Getting Certified**

Candidates must apply for certification. An Application for Certification form can be obtained in the Student Teaching Office in Davis Hall. The completed form must be given to the Certification Officer in Davis Hall.

#### THE TK20 ASSESSMENT SYSTEM

All certification candidates, regardless of major, are *required* to purchase the Tk20 assessment system. This will allow you to upload key assessments which demonstrate your competencies as you move through your certification program.

You *must* purchase Tk20 prior to registering for MAT 408, *Technology for Teaching Secondary Math* and is required subsequently for MAT 490, MAT 494, and MAT 496. Some of your other professional courses (field experiences for instance) may also require Tk20, so if your instructor lists this as a requirement for your course, you must purchase it for that course. You only need purchase the system once.

For information on the system and how to purchase it and log on, go here: https://inside.southernct.edu/tk20

# APPENDIX A: CHECKLIST FOR GATE 1

Complete MAT 150 and MAT 151 each with a C+ or better.
Complete fingerprinting and background check.
Complete EDU 200.
Take either the PRAXIS Core, SAT, or ACT exam and any related remediation.
Have an overall GPA $\geq$ 2.7 in all courses, including courses taken at other universities.
Submit your online application essay in Tk20 (see page $6-7$ for content).
Pass an interview with the Mathematics Department Certification Program Coordinator and one member of the Mathematics Department.

# APPENDIX B: CHECKLIST FOR GATE 2

Complete MAT 250, MAT 252, and MAT 372 in the major program with a C <sup>-</sup> or better.
Maintain an overall GPA $\geq$ 2.3 in mathematics courses in the major that count toward graduation.
Maintain an overall GPA $\geq 2.7$ in all courses, including courses taken at other universities.
Candidates must have a grade of B- or better on at least 50% of their math course grades that count toward their major.
Complete EDU 316.

# APPENDIX C: CHECKLIST FOR GATE 3

Complete all required mathematics courses in the major program.
Maintain an overall GPA $\geq$ 2.3 in mathematics courses in the major that count toward graduation.
Maintain an overall GPA $\geq 2.7$ in all courses, including courses taken at other universities.
Candidates must have a grade of B- or better on at least 50% of their math course grades that count toward their major.
Complete MAT 490 and MAT 408.
Complete EDU 413, EDU 471, RDG 500, SED 225 (or SED 482), SHE 203, any other state-required professional courses, and all university requirements.
Complete the Application for Student Teaching.
Pass PRAXIS II.
Complete the two online modules on Blackboard.
Pass each of the 4 modules in the online Mathematics Readiness Exam with a score of Target or Acceptable.

# APPENDIX D: CHECKLIST FOR GATE 4

Pass MAT 494 and MAT 496.
Maintain an overall GPA $\geq$ 2.3 in mathematics courses in the major that count toward graduation and 50% of math course with a grade of B- or better.
Maintain an overall GPA $\geq 2.7$ in all courses, including courses taken at other universities.
Apply to the State of Connecticut for an Initial Educator's Certificate.

# APPENDIX E: FOUR-YEAR CURRICULUM MAP\* (BS MATH + CERTIFICATION)

Academic Year 2021 - 2022

Freshmen Fall	Freshmen Spring
T1FY: INQ 101	T1TF: Tech Fluency
T1CT: Critical Thinking	T2CC: EDU 200
T1WC: ENG 112	MAT 151: Calculus II (4CR)
T1MC: Multilingual Communication (200 level)	MAT 372: Linear Algebra
T1QR: MAT 150 (4CR)	Elective Course
Praxis Core exam or receive waiver from state.	Prepare Application to CoE
Fingerprinting and background check prior to Field placement	Field Placement in EDU 200
Sophomore Fall	Sophomore Spring
T2MB: SHE 203	T2AE: HIS 110 or 111
CSC 152: Computer Programming	T2CD: MAT 260 - Geometry and the Arts (Recommended)
MAT 300(W): History of Math	T2TP: Time and Place
MAT 250: Foundations of Mathematics (4 CR)	T2GA: Global Awareness
MAT 252: Calculus III (4 CR)	MAT 378: Discrete Mathematics
Students gain formal admission to the Program.	
Junior Fall	Junior Spring
T2NW1: Natural World 1	T2NW2: Natural World 2
T2CE: Cultural Expression	EDU 413: Secondary Education
MAT 375: Abstract Algebra	EDU 316: Child Development and Psychology
MAT 221: Intermediate Applied Statistics (4 CR)	MAT 408: Technology for Teaching Secondary School Mathematics
Elective Course	MAT 360: Foundations of Geometry
Pass Praxis II Exam	Field Placement in EDU 413 & MAT 408
Senior Fall	Senior Spring
IDS 470: Literacy in the Classroom	MAT 494: Student Teaching
IDS 471: English Language Learners in the Classroom	MAT 496: Service Learning For Math Education (T3)
SED 225 (or SED 482)	
MAT 490: Teaching Mathematics for the Secondary School	
MAT 405: Elem. Mathematics from an Advanced Standpoint	
Field Placement in MAT 490	

<sup>\*</sup>Map doesn't replace degree evaluation

<sup>\*\*</sup> Total number of elective credits = 8. Number of elective courses depends on the number of credits

<sup>\*\*\*</sup>Two W-courses (in addition to MAT 300W) are also required. Students should try to choose LEP-T2 courses that are also W-courses.