

2023-2024

**TROY UNIVERSITY**  
**Master of Science in Applied Mathematics**  
**Discrete Mathematics and Modeling Concentration**  
 Graduate Degree Plan and Progress Record  
**33 Semester-Hour Program**

M.S. in Applied Mathematics  
 Created: 1/2023

Name:  Student ID#:  Campus:   
 Address:  Email:

**DEGREE REQUIREMENTS:**

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| <ol style="list-style-type: none"> <li>1. Official transcript(S)</li> <li>2. Unconditional Admission</li> <li>3. 33 Semester hours of credit</li> <li>4. Meet residency requirements</li> <li>5. No more than two grades below "B"</li> <li>6. Overall GPA of 3.0</li> </ol> | <ol style="list-style-type: none"> <li>7. All credit earned within 8 years of graduation</li> <li>8. Successfully complete/defend a thesis and 6 hours of thesis research or complete/pass 2 written examinations and complete research paper/project.</li> <li>9. Graduation Application filed</li> </ol> |
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**REQUIRED CORE COURSES (9 Semester Hours)**

Course No.	Title	HRS.	Grade	Term/YR.	Transfer Credit
MTH 6633	Advanced Linear Algebra	3			
MTH 6620	Advanced Concepts of Algebra	3			
MTH 6612	Advanced Discrete Mathematics	3			

**Discrete Mathematics and Modeling Concentration (24 Semester Hours)**

**Required Courses (9 Semester Hours)**

Select 3 courses from the following courses:

MTH 5520 (3) Graph Theory, MTH 6624 (3) Applied Combinatorics, MTH 6630 (3) Design Theory, MTH 6616 (3) Mathematical Models


**Non-Thesis Option Required Courses: (15 Semester Hours)**

MTH 6625	Specialized Study in Area of Mathematics	3			
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Select any 4 graduate (5000-6000 level) courses from the following (12 sh): Computer Science, Mathematics, and/or Statistics


**Thesis Option Required Courses: (15 Semester Hours)**

MTH 6692	Research and Thesis	6			
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Select any 3 graduate (5000-6000 level) courses from the following (9 sh): Computer Science, Mathematics, and/or Statistics


**ITEMS TO BE DISCUSSED:**

- 1. One term limit to have transcript(s) and test scores on file
- 2. Temporary, Conditional, and Unconditional Admission
- 3. Availability of faculty for academic advising
- 4. Petition for transfer credit once unconditionally admitted
- 5. Class attendance
- 6. Drop and Withdrawal procedures; deadlines and consequences
- 7. Petition for an incomplete grade
- 8. Student participation in course and program evaluation
- 9. Comprehensive Examination Requirements
- 10. Other

**Progress:**

STATUS	DATE	INITIALS
Conditional		
Test Scores		
Requirement for minimum undergraduate GPA waived		
Requirement for minimum score of GRE waived		
Unconditional		
Residency		
Comps		