

**TROY UNIVERSITY**  
**MASTER OF SCIENCE IN COMPUTER SCIENCE**  
**Cloud and Big Data Concentration**  
 Graduate Degree Plan and Progress Record  
**33 Semester-Hour Program**

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

**DEGREE REQUIREMENTS:**

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| <ol style="list-style-type: none"> <li>1. GRE test score</li> <li>2. Official transcript(S)</li> <li>3. Unconditional Admission</li> <li>4. 33 Semester hours of credit</li> <li>5. Meet residency requirements</li> <li>6. No more than two grades below "B"</li> </ol> | <ol style="list-style-type: none"> <li>7. Overall GPA of 3.0</li> <li>8. Completion of research requirement with a "B" or better</li> <li>9. All credit earned within 8 years of graduation</li> <li>10. Successfully complete comprehensive exam or thesis</li> <li>11. Graduation Application filed</li> </ol> |
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**PREREQUISITE COURSES** *Required for students with Bachelor's Degree outside the field of Computer Science*

| COURSE NO.         | TITLE  | HRS. | GRADE | TERM / YR | TRANSFER CREDIT |
|--------------------|--|------|-------|-----------|-----------------|
| MTH 2215           | Applied Discrete Mathematics                       | 3    |       |           |                 |
| CS 2250            | Computer Science I                                 | 3    |       |           |                 |
| CS 2255 or CS 3360 | CS II or Concepts of Object Oriented Programming I | 3    |       |           |                 |
| CS 3310            | Foundations of Computer Science                    | 3    |       |           |                 |
| CS 3323            | Data Structures                                    | 3    |       |           |                 |
| CS 4445            | Data Communication and Networking                  | 3    |       |           |                 |

**Note: To remain eligible for Federal Financial Aid, all undergraduate courses MUST be completed before students enroll in any graduate courses. Students on Federal Financial Aid may NOT enroll in undergraduate courses after they have begun graduate coursework.**

**REQUIRED CORE COURSES** (9 Semester Hours)

| COURSE NO. | TITLE                       | HRS. | GRADE | TERM / YR | TRANSFER CREDIT |
|------------|-----------------------------|------|-------|-----------|-----------------|
| CS 5545    | Computer Architecture       | 3    |       |           |                 |
| CS 5549    | Analysis of Algorithms      | 3    |       |           |                 |
| CS 5550    | Operating System Principles | 3    |       |           |                 |

**Non-Thesis Option Required Courses:** (9 Semester Hours)

| COURSE NO. | TITLE                                 | HRS. | GRADE | TERM / YR | TRANSFER CREDIT |
|------------|---------------------------------------|------|-------|-----------|-----------------|
| CS 6625    | Specialized Study in Computer Science | 3    |       |           |                 |
| CS 6634    | Cloud Computing                       | 3    |       |           |                 |
| CS 6661    | Big Data Algorithms and Systems       | 3    |       |           |                 |

**Advisor Approved Electives:** *Select 15 hours of advisor-approved Computer Science graduate courses*

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

| COURSE NO. | TITLE                                 | HRS. | GRADE | TERM / YR | TRANSFER CREDIT |
|------------|---------------------------------------|------|-------|-----------|-----------------|
| CS 6625    | Specialized Study in Computer Science | 3    |       |           |                 |
| CS 6634    | Cloud Computing                       | 3    |       |           |                 |
| CS 6661    | Big Data Algorithms and Systems       | 3    |       |           |                 |
| CS 6699    | Research and Thesis                   | 6    |       |           |                 |

**Advisor Approved Electives:** *Select 9 hours of advisor-approved Computer Science graduate courses*

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**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. Thesis and non-thesis options
- 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  |      |          |