COMPUTER SCIENCE, M.S.

Dr. Rasha Morsi, Program Coordinator
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csgrad@nsu.edu | http://www.cs.nsu.edu

Program Mission:
The computer science (CS) graduate program provides a quality
CS education to students, especially those from underrepresented
populations, by strengthening their leadership, analytical, and research
skills to empower them to fulfill their career aspirations and to become
productive computer science professionals.

The Master of Science (M.S.) degree requires 30 graduate credit hours
of course work including a thesis (6 credits), or 33 graduate credit hours
of course work including a project (3 credits). All degree requirements
must be completed within four calendar years. No more than twelve (12)
graduate credits may be transferred from other graduate schools. Full-
time students starting with a B.S. degree in Computer Science should
expect to take 1-1/2 to 2 years to complete the Master of Science degree.
Students in the accelerated online program should expect to take one
(1) year to complete the M.S. degree.

There are four tracks of study:
1. Computer Science*
2. Emphasis in Information Assurance
3. Emphasis in Data Science and Machine Learning
4. Emphasis in Communication Networks

*This track is also offered as an accelerated online program for project
students only.

STANDARD M.S. PROGRAM
The M.S. program requires 30-33 graduate credit hours of course work
including a thesis or a project. The 30 credits for the thesis track and 33
credits for project track which include 12 credits of core courses for all
students. Thesis students need 12 elective course credits and 6 thesis
credits. Project students need 18 elective credits and 3 project credits. All
degree requirements must be completed within four calendar years.

Full-time students with a B.S. degree in Computer Science or related field
should expect to complete the M.S. degree with thesis in 2 years and
project in 1-1/2 to 2 years. A cumulative GPA of 3.0/4.0 is required
for graduation.

ACCELERATED ONLINE PROGRAM
The Accelerated Online program is designed for the adult learner,
especially working professionals who wish to further their skills in an
online format for students interested in Computer Science. Courses
are offered in 7-week formats that allow flexibility to take one or two
courses per term. Students can complete their degree in 12-months. For
more information on this option see our website (https://online.nsu.edu/
degrees/technology/masters-computer-science/general/).

B.S./M.S. ACCELERATED PROGRAM
The Accelerated Master of Science in Computer Science program
allows promising students enrolled in the BS in Computer Science
program, including any of its tracks, to gain admission to the Accelerated
Master of Science program in Computer Science at Norfolk State
University. Students that meet the eligibility requirements can enter
the program, and upon designation of Junior standing in the Computer
Science curriculum, can take any 500-level course with subject
designation CSC for dual-credit toward the BS and MS degree programs.
A maximum of 12 credits may be dual-counted toward the BS and
MS degree requirements. Upon completion of the Accelerated Master
of Science in Computer Science program, students will have earned the
BS in Computer Science and the MS in Computer Science degrees. The
dual-counted courses allow completion of the combined degrees on an
accelerated time-scale.

How to Apply
Contact the Graduate Program Coordinator, Dr. Rasha Morsi
at rmorsi@nsu.edu.

Program Goal
To graduate students who are prepared to work in a computer science-
related field or to enroll in a doctoral program in a computer science-
related discipline, and who demonstrate creativity and innovative
problem-solving skills.

Program Learning Outcomes
1. Demonstrate the ability to conduct independent research.
2. Demonstrate knowledge of the body of literature in one or more
   advance topics in computer science through critically analyzing and
evaluating research findings..
3. Apply computing fundamentals in one or more areas of computer
   science.
4. Demonstrate proficiency in post undergraduate topics in the core
   areas of data communication, operating systems, analysis of algorithms,
   and advanced computer architecture.

Application Deadline
The deadline for application to the Master of Science Graduate Program
in Computer Science is May 1 of each year for Fall and November 1 for
Spring. The Accelerated Online option accepts students six (6) times
per year. Information on the Accelerated online program can be found
at Online NSU (https://online.nsu.edu/degrees/technology/masters-
computer-science/general/).

All application materials must be complete and received at Norfolk State
University on or before the deadline. Enrollment in the program begins the
semester following admission. Applications are available online (https://
nsu.eucancmrrecruit.com/Admissions/Pages/welcome.aspx). Please
upload all supporting documents to include the following:

- CV/Resume
- Personal Statement
- Request form for 3 letters of recommendations
- Unofficial Transcript (An official transcript with your degree conferred
  is required upon acceptance for admission)

NOTE: The accelerated track has a revolving application process, please
see the accelerated program website (https://online.nsu.edu/) for dates.

University on or before the deadline. Enrollment in the program begins the
semester following admission. Applications are available online (https://
nsu.eucancmrrecruit.com/Admissions/Pages/welcome.aspx). Please
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- CV/Resume
- Personal Statement
- Request form for 3 letters of recommendations
- Unofficial Transcript (An official transcript with your degree conferred
  is required upon acceptance for admission)

NOTE: The accelerated track has a revolving application process, please
see the accelerated program website (https://online.nsu.edu/) for dates.
Admissions
Apply online. Once your application is complete, the departmental Graduate Program Committee will review your package and decide on admission.

Academic Preparation
Students entering the master's in computer science program are expected to have an

• Undergraduate degree from an accredited 4-year college or university in
  • Computer Science, Computer Engineering, or related degree such as Electrical Engineering, and
  • Generally, an overall major GPA of at least 2.8.

B.S./M.S. Degree Requirements
1. Minimum CGPA: 3.0/4.0
2. Minimum CGPA: 3.0/4.0 across all Computer Science courses
3. Enrolled and in good academic standing in BS.CSC (any track)
4. Completion of BS.CSC, BS.CSC.CET, BS.CSC.DNIMAS, BS.CSC.DNIMAS, BS.CSC.CET, or BS.CSC.CYBT curriculum through the third year
   a. Students must have earned at least 89 credits by the semester in which they seek to enroll in any MS.CSC courses
5. Personal Statement of motivation and career objectives (1 page)
6. Resume to include experience and qualifications
7. Letter of Reference from one (1) CS, Engineering, Science or Mathematics Faculty

International Students
For international students, an official evaluated transcript is required for the application to be considered complete.

English Proficiency
To meet the English Proficiency requirement for admission, a TOEFL score of at least 80 or an IELTS score of at least 6.5 should be achieved. The TOEFL will be waived if a student has completed at least one year of full-time study at a college or university in an English-speaking country.

GRE
GRE scores are required of all applications seeking assistantships and scholarships. GRE scores should be sent to the School of Graduate Studies and Research. Generally, the minimum GRE score required for successful applicants is 152 or better on Verbal, and 155 or better on Quantitative and the Graduate Program Committee may waive the GRE requirement if an applicant majored in computer science or computer engineering and has a GPA of 3.2 or higher in computer courses.

Financial Assistance
Financial assistance is available for graduate work and can include standard federal and state financial aid. There may be a limited number of teaching, research, and laboratory assistantships (TA, RA, and LA) awarded each year.

Renewals of TA, RA, and LA awards are not automatic and are subject to annual review and availability of funding. The length of support does not exceed two academic years with one intervening summer (5 semesters total).

COMPUTER SCIENCE CURRICULUM

Summary of Graduation Requirements
Students completing a thesis will complete 30 credit hours and students completing a project will complete 33 credit hours.

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>12</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>18-21</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>30-33</td>
</tr>
</tbody>
</table>

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 530</td>
<td>Data Communication</td>
<td>15-18</td>
</tr>
<tr>
<td>CSC 564</td>
<td>Operating Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 625</td>
<td>Analysis of Algorithms</td>
<td></td>
</tr>
<tr>
<td>CSC 668</td>
<td>Advanced Computer Architecture</td>
<td></td>
</tr>
<tr>
<td>CSC 798 &amp; CSC 799</td>
<td>Master’s Thesis I and Master’s Thesis II</td>
<td></td>
</tr>
<tr>
<td>or CSC 795</td>
<td>Master’s Project</td>
<td></td>
</tr>
<tr>
<td>CSC 571</td>
<td>Game Design and Development</td>
<td></td>
</tr>
<tr>
<td>CSC 572</td>
<td>3D Game Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 573</td>
<td>Modeling and Simulation</td>
<td></td>
</tr>
<tr>
<td>CSC 576</td>
<td>Advanced Computer Topics III</td>
<td></td>
</tr>
<tr>
<td>CSC 577</td>
<td>Advanced Computer Topics IV</td>
<td></td>
</tr>
<tr>
<td>CSC 580</td>
<td>Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>CSC 593</td>
<td>Systems Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 596</td>
<td>Compiler Construction</td>
<td></td>
</tr>
<tr>
<td>CSC 611</td>
<td>Machine Learning</td>
<td></td>
</tr>
<tr>
<td>CSC 612</td>
<td>Computational Science</td>
<td></td>
</tr>
<tr>
<td>CSC 630</td>
<td>Computer Networks</td>
<td></td>
</tr>
<tr>
<td>CSC 635</td>
<td>Computer Security II</td>
<td></td>
</tr>
<tr>
<td>CSC 650</td>
<td>Cryptography</td>
<td></td>
</tr>
<tr>
<td>CSC 660</td>
<td>Parallel Computing</td>
<td></td>
</tr>
<tr>
<td>CSC 678</td>
<td>Scientific Visualization</td>
<td></td>
</tr>
<tr>
<td>CSC 691</td>
<td>Graduate Independent Study I</td>
<td></td>
</tr>
<tr>
<td>CSC 720</td>
<td>Wireless Sensor Networks</td>
<td></td>
</tr>
<tr>
<td>CSC 730</td>
<td>Advanced Topics in Networking</td>
<td></td>
</tr>
<tr>
<td>CSC 745</td>
<td>Network Defense</td>
<td></td>
</tr>
<tr>
<td>CSC 755</td>
<td>Cloud Computing</td>
<td></td>
</tr>
<tr>
<td>CSC 750</td>
<td>Evolutionary Computing</td>
<td></td>
</tr>
<tr>
<td>CSC 760</td>
<td>Secure Software Development</td>
<td></td>
</tr>
<tr>
<td>CSC 765</td>
<td>Advanced Topics in Information Assurance</td>
<td></td>
</tr>
<tr>
<td>CSC 781</td>
<td>Advanced Graduate Computer Topics I</td>
<td></td>
</tr>
<tr>
<td>CSC 782</td>
<td>Advanced Graduate Computer Topics II</td>
<td></td>
</tr>
<tr>
<td>CSC 791</td>
<td>Graduate Independent Study II</td>
<td></td>
</tr>
</tbody>
</table>
Tracks

**Information Assurance**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 535</td>
<td>Computer Security I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 555</td>
<td>Management of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC 635</td>
<td>Computer Security II</td>
<td>3</td>
</tr>
<tr>
<td>CSC 650</td>
<td>Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CSC 745</td>
<td>Network Defense</td>
<td>3</td>
</tr>
<tr>
<td>CSC 760</td>
<td>Secure Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CSC 765</td>
<td>Advanced Topics in Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Communication Networks**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 530</td>
<td>Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>CSC 630</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSC 720</td>
<td>Wireless Sensor Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSC 730</td>
<td>Advanced Topics in Networking</td>
<td>3</td>
</tr>
<tr>
<td>CSC 745</td>
<td>Network Defense</td>
<td>3</td>
</tr>
<tr>
<td>CSC 782</td>
<td>Advanced Graduate Computer Topics II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Data Science and Machine Learning**

The Data Science and Machine Learning track at Norfolk State University equips students with the skills needed to organize, collect, analyze, and draw inferences from large unstructured and structured data sets. Graduates of this track will master the theory, algorithms and state-of-the-art tools used by professionals for collecting, mining, and analyzing large data sets. Graduates also will learn the skills needed to clearly communicate results make recommendations based on those results.

**Requirements:**

All students taking this track are required to take CSC 611 and CSC 614
- Thesis students are required to take at least 2 more courses from the list
- Project students are required to take at least 4 more courses from the list

**PLAN OF STUDY OPTIONS**

**Option 1 (Thesis)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 530</td>
<td>Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>CSC 564</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 625</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSC 668</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSC 798</td>
<td>Master’s Thesis I</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 799</td>
<td>Master’s Thesis II</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

| **Total Credits** |                                 | **30**  |

**Option 2 (Project)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 530</td>
<td>Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>CSC 564</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 625</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSC 668</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSC 795</td>
<td>Master’s Project</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective or Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

| **Total Credits** |                                 | **33**  |

**Computer Science Accelerated Curriculum**

**Summary of Graduation Requirements**

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>12</td>
</tr>
<tr>
<td>Limited Elective Courses</td>
<td>18</td>
</tr>
<tr>
<td>Project</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

**Sample plan of study**

The plan of study starts with the entry term. Below is a sample sequence of study for a fall mini-term 1 start. Elective courses are offered on a rotating basis.
BS/MS ACCELERATED PROGRAM

Program Expectations

Accelerated students must:

- maintain required minimum CGPA’s overall and in Undergraduate Computer Science courses
- earn a B-grade or higher in all attempted dual-credit courses
- earn the MS degree within two regular semesters of the conferral semester projected at the time of admission to the Accelerated Master of Science in Computer Science program; otherwise, they shall be dismissed from the Accelerated Master’s program.
- If a student in the Accelerated Master of Science in Computer Science program has already completed CSC 430 and/or CSC 464 in the undergraduate program, then to fulfill the total credits requirement for the MS.CSC program s/he will be required to take suitable substitutions for CSC 530 and/or CSC 564, subject to approval by the GPC and the School of Graduate Studies as applicable.
- Students dismissed from the Accelerated program may not re-apply to it; however they may:
  - remain eligible to complete any remaining requirements to earn the BS.CSC as applicable;
  - apply for regular admission to NSU graduate programs for which they qualify, including but not limited to MS.CSC.

Summary of Graduation Requirements

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS Degree Requirements</td>
<td>108-114</td>
</tr>
<tr>
<td>MS Core Courses</td>
<td>12</td>
</tr>
<tr>
<td>MS Elective Courses</td>
<td>18</td>
</tr>
<tr>
<td>Project</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>141-147</td>
</tr>
</tbody>
</table>

Dual Credit: Any 500 level courses with subject designation CSC will be eligible for credits in the BS.CSC, BS.CSC.D, BS.CSC.CET, BS.CSC.CET.D, BS.CSC.SET, BS.CSC.CYBT, and BS.CSC.CYBT.D programs. Students must achieve a B grade or higher in the designated 500-level courses to count towards MS.CSC degree requirements. Therefore, total degree requirements range from 141 to 147.

BS.CSC/MS.CSC PLAN OF STUDY

Take 500 level courses as shown below then complete the required and elective courses from the MS.CSC Curriculum.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 292</td>
<td>Unix and C Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 380</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSC 468</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>First Semester Science Sequence</td>
<td>4</td>
</tr>
<tr>
<td>MTH 351</td>
<td>Probability &amp; Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 530</td>
<td>Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Computer Science Elective 300 level or above</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>CSC 275</td>
<td>Fundamentals of Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior</td>
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<td></td>
</tr>
<tr>
<td>CSC 498</td>
<td>Computer Science Seminar I</td>
<td>2</td>
</tr>
<tr>
<td>CSC 564</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Computer Science Elective 300 level or above</td>
<td>3</td>
</tr>
<tr>
<td>Cultural</td>
<td>Social Science Cultural Elective</td>
<td>3</td>
</tr>
<tr>
<td>Cultural</td>
<td>Humanities Cultural Elective</td>
<td>3</td>
</tr>
<tr>
<td>CSC 499</td>
<td>Computer Science Seminar II</td>
<td>2</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Computer Science Elective 300 level or above</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX</td>
<td>Graduate Elective</td>
<td>3</td>
</tr>
<tr>
<td>CSC XXX or</td>
<td>Graduate Elective</td>
<td>3</td>
</tr>
<tr>
<td>MTH XXX</td>
<td>Mathematics Elective 300 level or above</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Free Elective</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

BS.CSC.D/MS.CSC PLAN OF STUDY

Take 500 level courses as shown below then complete the required and elective courses from the MS.CSC Curriculum.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CSC 564</td>
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<tr>
<td>CSC 498</td>
<td>Computer Science Seminar I</td>
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</table>
**Computer Science, M.S.**

**CSC XXX**  
Graduate Elective 3

**CSC XXX**  
Computer Science or Mathematics Electives 300 level or above 3

**Cultural**  
Humanities Cultural Elective 3

**APS 411**  
Applied Science Seminar 0

**CSC 468**  
Computer Architecture 3

**CSC 499**  
Computer Science Seminar II 2

**CSC XXX**  
Graduate Elective 3

**CSC XXX**  
Computer Science or Mathematics Electives 300 level or above 3

**Cultural**  
Social Science Cultural Elective 3

**Credits**  
31

**Total Credits**  
31

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**BS.CSC.CET/MS.CSC PLAN OF STUDY**

Take 500 level courses as shown below then complete the required and elective courses from the MS.CSC Curriculum.

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<th>Course</th>
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<td>EEE 431</td>
<td>Microcontrollers</td>
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<tr>
<td>CSC 275</td>
<td>Fundamentals of Cybersecurity</td>
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<td>Humanities</td>
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<tr>
<td>CSC 468</td>
<td>Computer Architecture</td>
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<tr>
<td>CSC 498</td>
<td>Computer Science Seminar I</td>
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<td>Cultural</td>
<td>Social Science Cultural Elective</td>
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**BS.CSC.CET.D/MS.CSC PLAN OF STUDY**

Take 500 level courses as shown below then complete the required and elective courses from the MS.CSC Curriculum.

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<tr>
<td>CSC 530</td>
<td>Data Communication</td>
<td>3</td>
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<td>CSC 564</td>
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<td>CSC 498</td>
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<tr>
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<td>EEE 231L</td>
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**BS.CSC.CYBT/MS.CSC PLAN OF STUDY**

Take 500 level courses as shown below then complete the required and elective courses from the MS.CSC Curriculum.

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<td>CSC 380</td>
<td>Software Engineering</td>
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<td>MTH 351</td>
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<td>CSC 449</td>
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<td>CSC 420</td>
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<td>CSC 361</td>
<td>Survey of Programming Languages</td>
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<td>CSC 535</td>
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### MS.CSC PLAN OF STUDY

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<td>CSC 795</td>
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### BS.CSC.CYBT.D/MS.CSC PLAN OF STUDY

Take 500 level courses as shown below then complete the required and elective courses from the MS.CSC Curriculum.

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