Department of Computer Systems Technology
College of Science and Technology

Undergraduate Handbook

NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

Revised: August 2016, Version 4
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Part I: Welcome

Chair’s Welcome

Welcome to the North Carolina A&T State University’s Department of Computer Systems Technology. The university is strongly committed to excellence in the study of technology. The CST Department offers a Bachelor of Science degree in Electronics Technology, Master of Science Information Technology, and a Doctoral Degree in Technology Management (consortium with Indiana State University). The School of Technology also offers a Master of Science in Technology Management. Our innovative courses and curricula prepare undergraduates and graduates for critical thinking and furnish students with great employment opportunities. The departments’ philosophy emphasizes extensive faculty-student contact in and outside the classroom.

We utilize a collaborative approach to course design by working directly with industry leaders to identify the leading edge technologies that our students will need to master in order to succeed in the workforce. So, if you are interested in computer networking, embedded systems, power distribution, system administration, and digital logic; then this is the department for you. You will learn on the systems that will prepare you for the future!

Beyond the classroom you will be actively engaged in laboratory experiences. You will take courses in science, mathematics, business, microcontroller systems, circuit analysis, management, computer programming, and more. After graduation, our students are prepared to manage projects and/or people in the corporate sector, software companies, and the telecommunications industry. Companies that hire our graduates include: State, Local, and Federal Government, IBM, Cisco, Ford Motor Company, just to name a few.

Once again we welcome you to the Computer Systems Technology Department. We hope that your matriculation at the university will be extremely rewarding. If you need assistance or additional information please feel free to contact the department office (336-334-7717).

Welcome,

Clay S. Gloster, Jr., Ph.D.
Professor & Chair
Part II: Notice

Notice to CST Students

Students:

Please see your advisor to review your plan of study as soon as possible. The university academic calendar and exam schedule are posted and maintained annually by the Office of the Registrar. Please refer to them regularly for deadlines, holidays, and breaks. The link is below. Also, please check your @NCAT.EDU or @AGGIES.NCAT.EDU at least twice daily.

Academic Calendar & Exam Schedule
Academic Calendar - Click to Follow

Thank You
CST Department

Department Crash Course

What is your institution’s name?
North Carolina Agricultural and Technical State University

What is your School or College?
School of Technology

Who is the Dean of the School of Technology?
Dr. Ben Uwakweh

Who is the Assistant Dean of Student Success?
Dr. Sherry Abernathy

What is your department name?
Computer Systems Technology

Who is the Chair of your department?
Dr. Clay Gloster, Jr.

What is your major?
Electronics Technology
Information Technology

What degree will you earn upon graduation?
Bachelor of Science in Electronics Technology
Bachelor of Science in Information Technology
Part III: The Department

Introduction

The Department of Computer Systems Technology (CST) prepares students to pursue technical, as well as technical management careers in all employment sectors. The program emphasizes acquisition of sound theoretical studies, as well as intensive hands-on experiences in the area of electronics technology. The CST department emphasizes development of real world competencies demanded by employers. Students receive thorough grounding in electronics; digital and microprocessor systems; computer technologies, including hardware, software and computer networking; communication systems; power distribution; and automation and control systems.

Additional emphasis is placed on courses in business management, statistical process control, humanities, computer programming, safety and project management, and manufacturing processes to provide students the background they need in the economic and managerial aspects of the business enterprise.

After graduation, our students are prepared to manage projects and/or people in the corporate sector, software companies, telecommunications, the banking industry, etc. Companies that hire our graduates include: John Deere, Verizon, USAA, Lockheed Martin, Fidelity Investments, Accenture, IBM, just to name a few.


Vision

The vision of the Department of Computer Systems Technology at North Carolina A&T State University is to become one of the top 100 departments in the nation that offer degrees in technology-related disciplines. In this way, the department intends to create leaders in computer systems technology and engineering disciplines for the state, nation, and the global community.

Mission

The mission of the Department of Computer Systems Technology at North Carolina Agricultural and Technical State University, strategically aligned with that of the university, is to provide students with the fundamental technical skills and knowledge required for gainful employment in the electrical, electronics, or information technology fields.
Course Descriptions

All courses that are offered by the CST Department can be found in the University’s Course Catalog, searchable by term. You can access a description of each course by using the following steps or link.

Navigation Steps:
www.ncat.edu >> Quick Links >> Aggie Access Online >> Course Catalog >> Select the Term >> Select Subject >> Select Level (Undergraduate)

Link:
Aggie Access Online Course Catalog - Click Here to Follow
# Electronics Technology Program Curriculum Guide

**Bachelor of Science in Electronics Technology**

**Fall 2016**

**Major Code: 0340**

*For additional program curriculum guides, please see your Academic Advisor.*

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CST 120</td>
<td>3</td>
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<td>ENGL 100</td>
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<td>CST 140</td>
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<tr>
<td>FRST 101</td>
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<td>CST 150</td>
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<tr>
<td>MATH 110</td>
<td>4</td>
<td>ENGL 101</td>
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</tr>
<tr>
<td>Global Awareness(GA)(2)</td>
<td>3</td>
<td>MATH 131</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CST 212</td>
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<td>CST 222</td>
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<td>SPCH 250</td>
<td>3</td>
<td>MATH 224</td>
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<td>African-American studies (AA)(2)</td>
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<td>Social /Behavioral Sciences(SBS)(2)</td>
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<table>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>CST 312</td>
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<td>CST 300</td>
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<tr>
<td>CST 322</td>
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<td>MGMT 220</td>
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<td>CST 355</td>
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<td>PHYS 226</td>
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<td>PHYS 225</td>
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<td>PHYS 236</td>
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<tr>
<td>CST 496</td>
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<td>CST 499</td>
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<td>CST 498</td>
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<td>MGMT Elective(3)</td>
<td>3</td>
<td>MGMT Elective (3)</td>
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</tbody>
</table>

| Total Credit Hours: | 120 |

(1) Technical Electives: Any CST course that is not already a required course may be used as a technical elective. In addition, students may petition to have other technical or math courses counted as technical electives.

(2) SBS/GA/AA Electives from Approved List: These must be selected from three different pools. If a course meets requirements in two or more outcomes, the student has the option to use the course for one outcome and must select another course to fulfill the requirement for each outcome.

(3) MGMT Electives: Students must earn at least 6 credit hours in the MGMT courses.

(4) Free Electives: Any course at or above the 100 level may be taken as a free elective.
### Program Prerequisites and Co-requisites: Curriculum

#### Electricity Technology

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>Freshman Semester I (17 Credits)</td>
<td>MATH 110</td>
<td>Pre-Calculus for Eng/Sci</td>
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<tr>
<td>Freshman Semester II (15 Credits)</td>
<td>MATH 131</td>
<td>Calculus I</td>
</tr>
<tr>
<td>Sophmore Semester I (17 Credits)</td>
<td>MATH 132</td>
<td>Calculus II</td>
</tr>
<tr>
<td>Sophmore Semester II (14 Credits)</td>
<td>MATH 224</td>
<td>Intro to Probability &amp; Statistics</td>
</tr>
<tr>
<td>Junior Semester I (15 Credits)</td>
<td>PHYS 225/235</td>
<td>College Physics I</td>
</tr>
<tr>
<td>Junior Semester II (14 Credits)</td>
<td>PHYS 226/233</td>
<td>College Physics II</td>
</tr>
<tr>
<td>Senior Semester I (13 Credits)</td>
<td>MGMT 220</td>
<td>Business Environment</td>
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<tr>
<td>Senior Semester II (15 Credits)</td>
<td>CST 499</td>
<td>Senior Project Capstone Experience</td>
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**Electron Prorequisites:**

- Freshman Semester I: MATH 110 (1 Credit), MATH 131 (3 Credits), MATH 132 (3 Credits), MATH 224 (3 Credits)
- Freshman Semester II: MATH 110 (1 Credit), MATH 131 (3 Credits)
- Sophmore Semester I: MATH 132 (1 Credit), MATH 224 (1 Credit)
- Sophmore Semester II: MATH 110 (1 Credit), MATH 131 (3 Credits)
- Junior Semester I: MATH 132 (1 Credit), MATH 224 (1 Credit)
- Junior Semester II: MATH 110 (1 Credit), MATH 131 (3 Credits)
- Senior Semester I: MATH 132 (1 Credit), MATH 224 (1 Credit)
- Senior Semester II: MATH 110 (1 Credit), MATH 131 (3 Credits)

**Total Credit Hours:** 120

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**Bachelor of Science in Electronics Technology**

**Total Credit Hours:** 120
Information Technology Program Curriculum Guide

Bachelor of Science in Information Technology
Fall 2016
Major Code: 0432

For additional program curriculum guides, please see your Academic Advisor.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CST 120 Fundamentals of Technology</td>
<td>3</td>
<td>CST 112 Electric Circuits I</td>
<td>3</td>
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<tr>
<td>CST 130 Intro to Unix/Linux</td>
<td>3</td>
<td>CST 122 Electric Circuits I Lab</td>
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<tr>
<td>ENGL 100 Ideas and Their Expressions I (WC)</td>
<td>3</td>
<td>CST 140 Intro to Computer Programming</td>
<td>3</td>
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<tr>
<td>FRST 101 University Experience (SS) (2)</td>
<td>1</td>
<td>CST 150 Intro to Computer Programming Lab</td>
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<tr>
<td>MATH 110 Pre-Calculus for Eng/Sci (MLAR)</td>
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<td>ENGL 101 Ideas and Expressions II (WC) (2)</td>
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<tr>
<td></td>
<td>3</td>
<td>MATH 131 Calculus I (MLAR)</td>
<td>4</td>
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<tr>
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<td>Total Credit Hours:</td>
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<th>Sophomore Year</th>
<th>Credits</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CST 231 Web Systems</td>
<td>3</td>
<td>CST 225 Computer Database Management I</td>
<td>3</td>
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<tr>
<td>CST 240 Applied Java Programming</td>
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<td>CST 235 Computer Database Management Lab</td>
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<tr>
<td>MGMT 220 Business Environment</td>
<td>3</td>
<td>CST 285 Economic and Social Impacts of IT</td>
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<td>Social &amp; Behavioral Sciences (SBS) (1)</td>
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<td>SPCH 250 Speech Fundamentals (HFA) (1)</td>
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<td>Scientific Reasoning (SR) (2)</td>
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<td></td>
<td>African-American studies (AA) (1)</td>
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<td>Total Credit Hours:</td>
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<th>Junior Year</th>
<th>Credits</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CST 325 Computer Database Management II</td>
<td>3</td>
<td>CST 300 Introduction to Project Management</td>
<td>3</td>
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<tr>
<td>CST 329 Computer Networking I</td>
<td>3</td>
<td>CST 315 Network Security Applications</td>
<td>3</td>
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<td>CST 339 Computer Networking I Lab</td>
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<td>CST 317 Human Computer Interaction</td>
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<tr>
<td>MATH 224 Introduction to Probability and Statistics</td>
<td>3</td>
<td>CST 430 Linux System Administration</td>
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<td>Track Elective TE (3)</td>
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<td>Track Elective TE (3)</td>
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<th>Senior Year</th>
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<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>CST 460 System Integration &amp; Architecture</td>
<td>3</td>
<td>CST 499 Senior Capstone Experience</td>
<td>3</td>
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<tr>
<td>CST 496 Senior Colloquium</td>
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<td>MGMT Elective (4)</td>
<td>3</td>
</tr>
<tr>
<td>CST 498 Senior Capstone Project</td>
<td>3</td>
<td>Track Elective TE (3)</td>
<td>3</td>
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<tr>
<td>MGMT Elective (4)</td>
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<td>Track Elective TE (3)</td>
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<td>Free Elective (4)</td>
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</tr>
<tr>
<td>Total Credit Hours:</td>
<td>13</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

(1) SBS/GA/AA Electives from Approved List: These must be selected from three different pools. If a course meets requirements in two or more outcomes, the student has the option to use the course for one outcome and must select another course to fulfill the requirement for each outcome.

(2) Scientific Reasoning Electives: Students must complete at least one lab-based science course. Refer to the University website for an up-to-date listing of acceptable courses.

(3) Technical Electives: Any CST course that is not already a required course may be used as a technical elective. In addition, students may petition to have other technical or math courses counted as technical electives.

(4) MGMT Electives: Students must earn at least 6 credit hours in the MGMT courses.

(5) Free Electives: Any course at or above the 100 level may be taken as a free elective.
General Education Courses

Please use the following link to view the approved general educational courses. They have been approved by the General Education Council, the Faculty Senate, and the Provost. Courses are listed on the website in alphabetical order by department and course number within each general education student learning outcome area.


Technical Electives/ Track Electives

Technical electives can be any course (200 level or above) offered in the department that is not already a required course for that student. Students may also take classes in the Management Information Systems department, which are at or above MIS 241. As a last resort (if courses from the two previous categories cannot be found), students can take other courses offered in the SOT as Tech Electives.
Program Prerequisites and Co-requisites: Curriculum

Information Technology

Freshman Semester I (17 Credits)
- MATH 110 Pre-Calculus for Eng/Sci
- MATH 131 Calculus I

Freshman Semester II (15 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Sophomore Semester I (16 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Sophomore Semester II (16 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Junior Semester I (13 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Junior Semester II (15 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Senior Semester I (13 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Senior Semester II (15 Credits)
- MATH 131 Calculus I
- MATH 224 Intro to Probability & Statistics

Bachelor of Science in Information Technology
Total Credit Hours: 120
Program Outcomes

a) An appropriate mastery of the knowledge, techniques, skills, and modern tools of electronics technology
b) An ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology (SoT outcome: Innovation)
c) An ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes (University outcome: Critical Thinking)
d) An ability to apply creativity in the design of systems, components, or processes appropriate to program educational objectives
e) An ability to function effectively on teams (SoT outcome: Ethical Leadership)
f) An ability to identify, analyze, and solve technical problems
g) An ability to communicate effectively (University outcome: Communication)
h) A recognition of the need for, and an ability to engage in lifelong learning
i) An ability to understand professional, ethical, and social responsibilities (SoT outcomes: Ethical Leadership, Global Awareness)
j) A respect for diversity and knowledge of contemporary professional, societal, and global issues
k) A commitment to quality, timeliness, and continuous improvement
l) The application of circuit analysis and design, computer programming, associated software, analog and digital electronics, and microcomputers to the building, testing, operation, and maintenance of electronic(s) systems (University outcome: Critical Thinking)
m) The applications of physics or chemistry to electronic(s) circuits in a rigorous mathematical environment at or above the level of algebra and trigonometry
n) The ability to analyze, design, and implement control systems, instrumentation systems, communications systems, computer systems, or power systems
o) The ability to apply project management techniques to electrical/electronic(s) systems
p) The ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of electronic(s) systems.
Email Accounts

All Computer Systems Technology students should check their NC A&T State University email accounts multiple times a day. This is a vital tool of communication between the University, the Department, the faculty, and with your classmates.

Academic Advising & Registration

The School of Technology Course Registration Form is available on the School of Technology website at the link below. Please complete, obtain the required signatures, and return the ORIGINAL to the department office. (A copy will be made for you)

Link: Academic Advising Form - Click to Follow

Please note that we expect ALL students to complete the advising process two (2) weeks PRIOR to registration. Failure to do so may result in you not being able to register until the beginning of the next semester.

Before Meeting with Your Advisor

1. Print a copy of the CURRICULUM GUIDE for the program of study and year you entered the program.
   a. On the School of Technology website, Curriculum Guides Link - Click to follow, navigate to find your curriculum guide.
   b. DO NOT go to your departmental office for a copy of the curriculum, go to the website and print your copy
2. Print an UNOFFICIAL TRANSCRIPT from Aggie Access Online.
3. Complete a DEGREE AUDIT on the curriculum sheet.
   a. Check off the courses successfully completed and note the grade
   b. Make sure you met the minimum grade of “C” for your major classes
   c. Make sure you met the minimum grade of “C” for math and science classes (if applicable)
   d. Identify the next ten (10) courses in your curriculum guide, in sequential order, needed to progress toward degree completion
   e. Make sure you are taking classes in the appropriate UNST Cluster Theme (if applicable) or General Education requirements
4. Complete a Course Registration Form from the SoT website, Link: Course Registration Form - Click to Follow
   a. FIRST – identify any courses that you need to retake and list them (if applicable) – we strongly recommend that you DO NOT DELAY taking lower division courses until the end (i.e. Math, Physics, Chemistry, etc.)
   b. SECOND – identify the courses for which you have successfully completed the prerequisites
   c. THIRD – list the next ten (10) courses that you need to continue making progress towards your degree, INCLUDE COURSE NUMBER, SECTION, etc. as listed in the CLASS SCHEDULE
   d. FOURTH – go the class schedule on the A&T Website (Click on CURRENT STUDENTS, then CLASS SCHEDULE)
Meeting with Your Advisors
1. Go over your proposed course schedule.
2. You are expected to take the courses listed on your curriculum sheet – ANY deviations from the curriculum sheet require PRIOR WRITTEN APPROVAL.
3. You are expected to have a signed Course Registration Form for your registration. We reserve the right to CANCEL your registration, if you sign up for classes without consultation with your advisor.
4. Please note that all Course Registration Form are writeable PDFs and must be typed, with NO ERRORS before requesting any signatures.

Academic Advisors

<table>
<thead>
<tr>
<th>Category</th>
<th>Advisor</th>
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<tbody>
<tr>
<td>A – D</td>
<td>Dr. Bullock</td>
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<tr>
<td>E – G</td>
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*All Faculty Can Sign As An Advisor

Course Overrides

The School of Technology Override Request Form is available online. Please fill out the form completely, print, obtained the required signatures, and return to the department office. Overrides may also be obtained from the course instructor.

Permission to be placed in a course in the School of Technology requiring an override through Banner MUST have approval. The School of Technology Override Request Form must be completed in its entirety with all required signatures prior to review. This is an electronic form that must be completed online and can be accessed at the following link.

Link: Course Overrides - Click to Follow

Course Auditing

Academic Student Forms - Click to Follow

Students who intend to register for a course for which they do not want to earn credit may register as an audit student by picking up the Audit Registration Form from the Office of the Registrar. He or she must register officially for the course and pay the University Cashier. Attendance, preparation, and participation in the classroom discussion and laboratory exercises shall be at the discretion of the instructor.
A student who audits courses is not required to take examinations and tests and he or she receives no credit. An auditor may not change his or her registration from audit to credit or from credit to audit after the end of the late registration process.

**Applying for Graduation**

The CST Department Policies and Procedures Contract for Prospective Graduates (Undergraduate) Form is available in the department office. Please review, sign, date, and return to the Department Chair before the end of the advising period.

- **Apply for graduation within the department**
  - Deadline: During Advising period of the semester before anticipated graduation date

- **Apply for graduation for the university**
  - Deadline: See University Academic Calendar

Graduation Deadline is found on the Academic Calendar: [Academic Calendar includes graduation application deadline - Click to follow](#)

The CST Department is enforcing a new graduation procedure. This policy involves clearing students at the departmental level, before students apply for graduation at the university level.

The procedure is as follows. During the semester before a student plan’s to graduate, each student must attend a one on one audit session with the designated graduation clearance advisor in the department. Following this session a student must sign the CST Graduation Policies and Procedures contract, which is included below. This contract will be kept on file in the department and assures that the student is aware of the basic standards associated with graduating from this University.

**DUE DATES:** For students planning on graduating during the Fall Semester, the one on one audit session must be completed no later than March 1st of the Spring semester before you anticipate graduation. For students planning on graduating in the Spring or Summer, the one on one audit session must be completed no later than October 1st of the Fall semester before you anticipate graduation.

**Change of Major**

The Office of the Registrar Change of Major Form is available in the department office. Please obtain the necessary signatures for processing.

**PLEASE NOTE:** Changing your major will add at least one year to expected graduation date.

You must have at least a 2.5 GPA to change your major to Electronics Technology or Information Technology. You must obtain all required signatures for processing.

Registrar’s Office – White Copy
New Major – Canary Copy (Light Yellow)
Student – Pink Copy
Old Major Department – Gold Copy
Transfer of Coursework

The CST Department Transfer Credit Request Cover Sheet and Transfer Credit Request Form are available in the department office. Please complete, sign, attach all supporting documentation, and return to a Transfer Coordinator or Department Chair.

The Department of Computer Systems Technology welcomes students transferring from other universities or community colleges.

Then Office of Admissions will give credit for general education courses upon applying to the university. To obtain credit for technical courses you must complete the following steps:

A. Obtain course descriptions from the program you are transferring from
B. Obtain course descriptions of the CST courses (available online in course catalog)
C. Obtain a copy of your transcript from all institutions you have attended.
D. Fill out the following forms
   a. Transfer Credit Request Cover Sheet
   b. Transfer Credit Request Form
E. Turn in completed forms to the Department Chair or Transfer Coordinator
F. Approved transfer credits should appear on your unofficial transcript after the department’s approval and processing by the Office of Admissions.

Grade Appeal Process

The grade appeal process is composed of three levels. The levels are: the faculty member, the Department Chair, and the Dean; who initiates a hearing by the Grade Appeal Committee. If the process reaches the GAC, the committee will render its decision to the Dean of the School of Technology as outlined in the parameters of Procedures. Listed below are the steps for filing an appeal for an unsatisfactory final grade.

1. Within 10 days of the start of the succeeding semester, the student must communicate (in writing) with the faculty member of the class indicating the grade received was not the correct grade. The student must present documentation to support his/her claim that the final grade received was not the correct grade. Within 10 days, the faculty member will provide to the student a written response to the final course grade appeal.

2. If the student is not satisfied with the faculty member's response, the next level is to appeal to the Department Chair. The student must submit to the Department Chair within 10 days, the letter submitted to the faculty member and the faculty member's written response to the first level appeal. The Department Chair will review the documents and meet with the student and faculty member. The Department Chair will provide a written response within 10 days after interviews to the student and faculty member.

3. If the student is not satisfied with the decision of the Department Chair, the student can petition the Dean for a hearing with the Grade Appeal Committee. The GAC is the final level of appeal within the School of Technology. Within 10 days after the student receives the response from the Department Chair, the student can write a letter of appeal to the Dean requesting a meeting with the GAC. The GAC will not meet with a student until that student has made appeals through Levels I and II as
described above. After the GAC reviews all appropriate documents, interviews the student and the faculty member, the GAC will render a decision to the Dean of the School of Technology. The Dean will consider the GAC's recommendations and make the FINAL decision concerning the grade appeal. The student will receive the Dean's decision within 10 days after receiving the GAC's recommendations.

**Final Decision**
The Grade appeal Committee will review all appropriate documents and interview all relevant parties and render a recommendation to the Dean of the School of Technology. The final decision relative to the grade appeal rests with the Dean. The Dean's decision is the final disposition of the matter at the School of Technology level. The Dean will convey, in writing, the final decision to all involved parties.

**Readmission**

Students seeking readmission to the CST Department must follow the official School of Technology readmission process. This process can be found at the link below.

[Link: Read Admission](#)

The CST Department will place all readmitted students, regardless of reason for leaving the university, on the newest curriculum guide in the department. Students wishing to use curriculum guides that are older must petition the department. A link to the petition form is found below.

[Link: Petition Form - Click to Follow](#)

The Department Chairperson, Faculty Advisor, and University Registrar must approve the petition before it can be granted. Students that are closer to graduation are more likely to gain approval to follow one of the older curriculum guides.
Part VII: Student Success Resources

The Office of Student Success is available in the School of Technology to support you as students in your quest to be successful in your academics and career preparation, whether you are a current or prospective student. We believe you can maintain a good overall GPA and graduate in four years by being diligent and informed. Please use the following information to help guide you during your University experience here or to get more information about us.

The Office of Student Success is located in Price Hall 205 Suite.

Dr. Sherry Abernathy
Assistant Dean
Price Hall 205D
Office: (336)334-7539
Email: sfaberna@ncat.edu

Website: http://www.ncat.edu/academics/schools-colleges1/sot/current-students/index.html

Student Tutoring and Other Support Services

We are committed to providing services that you need to succeed while at North Carolina A&T State University. The following are highly recommended services on campus:

The Center for Academic Excellence offers:
- Tutorial Services
- Supplemental Instruction
- Academic Support
- Skill Building Labs to aid you in math and science courses

Other Services Available:
- University Writing Center and Composition Central offer writing assistance and tutoring.
- The Math Learning Resource Center provides tutoring for those who need help in math. We encourage all of our students to attend weekly math tutorials as you attend your classes.
- The library is a great place to study and gather peer-reviewed literature. The library stays open late and would be ideal for gathering a group of classmates for late night studying. Review what Bluford Library has to offer to our School of Technology students.
- The Residence Halls have scheduled programs as well as on-going study halls for students to obtain the help needed to be successful.

Scholarships

The School of Technology is aware that many of our students need some form of financial assistance. Therefore, we recommend you:
- Contact the Financial Aid Office who handles the majority of grants, loans, and awards available to our students.
- Complete a FAFSA
• Apply for scholarships made available to the School of Technology enrolled full-time students. These scholarships are made possible by our generous donors; businesses, foundations, and individuals. Each scholarship has a different set of criteria for selection of recipients. To be considered for one of these scholarships, complete an Interest Form in the spring semester. Announcements will be posted with the deadline. Interest Form (Formats: DOC & PDF)

In addition, we have made available to you scholarships we have researched that you can apply for on your own.

Please visit the School of Technology Office of Student Success website to find out how to apply.
http://www.ncat.edu/academics/schools-colleges1/sot/current-students/cspages/scholarships.html

Student Organizations

School of Technology’s Honor Society
• Epsilon Pi Tau (EPT)
• Dean’s Circle

Electronic, Computer and Information Technology
• Electronics Club (E-Club)
• Institute of Electrical and Electronics Engineers (IEEE)
• Instrumentation, System, and Automation Society (ISA)
• National Association of Radio and Telecommunications Engineers (NARTE)

Professional Development

We encourage you to engage in co-ops and internships to obtain valuable on-the-job experience that enhances your academic coursework. We encourage you to speak with your faculty advisor as early as possible on how your curriculum can support an internship or co-op.

As you get closer to graduation, we encourage you to begin thinking about your overall professionalism that includes professional dress, communication, resume, and overall polish of your demeanor. Career Services can support you with these aspects of your professional practice.

Link to Career Services: http://www.ncat.edu/student-affairs/student-services/career-services/

Technology Week

The School of Technology presents Technology Week with various events throughout the week. The theme this year is “Driving Excellence with Technology”. Technology continues to be the driving force in helping companies run efficient operations. When old processes are not working and companies are trying to boost performance they often turn to new technology solutions. The purpose of Technology Week is an opportunity to educate, inform, and display the field of technology and its place as a career choice. We bring together School of Technology students, faculty, staff, high school and community college students, and corporate partners to share the story of “Why Technology?” Not only is technology one of the fields that is in a job growth pattern, but it meets the strategic direction of the country in increasing jobs in STEM.
Many activities throughout the week are planned: Monday, Tuesday, and Thursday we showcase the seven undergraduate technology programs, and on Thursday evening, we will have a Women in Technology Lecture and Panel Discussion. For more information, please contact the School of Technology at 336-334-7359 or visit our web-site http://www.ncat.edu/sot

Technology Week Link: http://www.ncat.edu/academics/schools-colleges1/sot/events/Technology%20Week.html

Extreme IT Day

Extreme IT Day is an annual event hosted by the School of Technology for the purpose of developing skills and promoting career opportunities in mainframe technologies, information technology and cloud computing. The festive event brings together educators, industry partners and approximately 400 highly motivated high school and college students for a day of innovative activities and fun. Students participate in various hands-on exercises to enhance applied STEM skills (science, technology, engineering & math) for managing enterprise systems. An interesting addition to Extreme IT Day is the "Career Expo" where organizations that use enterprise systems are able to directly interact with the best and the brightest college students from NC A & T and other participating colleges. These organizations are able to make presentations, demonstrations, receive resumes, interview students or use the time in any way they find productive in identifying the next group of enterprise systems superstars.

Extreme IT Day 2010 Video: Click to Follow
Extreme IT Day 2011 Video: Click to Follow
Part VIII: Additional CST Resources

Department Facilities

Teaching Laboratories
Nearly every course in the Computer Systems Technology Department is enhanced with experimentation training and coursework. It is imperative that students understand the importance of lab work. Our department offers labs that are specialized for your needs as a student in the Electronics Technology program.

Instructional Electronics Laboratories
• Signal Processing Lab (Smith Hall 4008)
  Supports the study of electrical and electronics circuits, microcontroller programming, and project management.
  Equipment Provided: 16 Student Computers with NI Circuit Design, Freescale Codewarrior, and Xilinx. 6 Electronics Stations with digital oscilloscopes, power supplies, function generators, and digital meters. This facility also houses solar energy experimentation kits and Dominion Power equipment.

• Computational Technology & Lecture Classroom (Price Hall 201C)
  Supports the study of Parallel Processing with CentOS operating system.
  Equipment Provided: 10 Student Computers with CentOS & 40 Student Lecture Facility

Instructional Computer Laboratories
• Instructional Computer Lab (Price Hall 201B)
  Supports the study of microcomputer applications, java application development, and C++ programming.
  Equipment Provided: 20 Student Computers

• Large Instructional Computer Lab (Smith Hall 4001)
  Supports larger computer lecture courses. Currently Mainframe Computing is offered by our department in this location.
  Equipment Provided: 30 Thin Clients

• Networking Lab (Smith Hall 4016)
  Supports the study of computer networking, database management, cisco academy classes, computer forensics, and information technology courses.
  Equipment Provided: 20 Student Computers, Cisco Academy routers, catalysts, and modules, computer forensics software, and Apple IPads.

Open Computer Laboratory
• Open Computer Lab (Smith Hall 3010)
  This is an area for students to collaborate and study. It is open from 8 am to 5 pm daily and is equipped with software used in every computer lab in the School of Technology.
  Equipment Provided: 25 Student Computers
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<th>Name</th>
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