This degree map is a semester---by---semester sample course schedule for students majoring in Computer Science. The milestones listed to the right of each semester are designed to keep a student on track to graduate in four years. The schedule serves as a general guideline to help build a full schedule each semester. Milestones are courses and special requirements necessary for timely progress to complete a major. When one or more milestones are missed, students should consult with an academic advisor to determine if another degree path would be more suitable.

The Computer Science Department resides in the College of Engineering. A student majoring in the area of Computer Science is exposed to a broad---base of knowledge in various contemporary computer science fields such as computer architecture and organization, algorithm design and analysis, computer programming, database management systems, and computer networks and data communications. Computer Science, like other degree programs in the College, requires students to have academic preparation in mathematics and the natural sciences; it also relies heavily o the areas of communications and ethics.

Students in the discipline are expected to maintain a minimum cumulative Grade Point Average (GPA) of 2.00 . Computer Science majors earning a grade of "D" or lower in a COMP course or MATH 1910 should repeat the course the very next time the course is offered. A student, however, may graduate with a maximum of two " $D$ " grades in these courses. Additionally, the University requires a minimum of "C" grade in ENGL 1010 and ENGL 1020. Students can enroll in COMP 4500, Senior Project I, only if they are eligible for graduation in the following semester. For more information concerning policies and practices in the Department of Computer Science, please refer to the department's website (www.tnstate.edu/cs).

Tennessee State University recognizes that students have diverse learning, life, and professional experiences. The University provides opportunities for students to earn college credit toward the degree through a number of assessment options that evaluate their learning experiences. These paths are grouped under the category "Prior Learning Assessment" (PLA). Various means of earning PLA credit at TSU are the following: Advanced Placement Program, American Council of Education (ACE) Military Credit, College Level Exam Program (CLEP), DSST Credit by Examination Program (includes DANTES Examination), Institutional Course Challenge Exams (Departmental Exams), International Baccalaureate Credit, Other Military Service, Portfolio Assessment. To learn more about PLA contact your academic advisor or the Office of Student Support Services for Adult and Distance Learners at (615) 963---7001 or adultstudentsupport@tnstate.edu.

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| Fall Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 1 | Hrs. | Semester 1 |
| ENGL 1010 | 3 | Pre---Requisite Course: Must be taken before ENGL 1020, and HIST <br> 2010, HIST 2020, HIST 2030, HIST 2060, HIST 2070, or HIST 2700; <br> Minimum grade "C" Required |
| UNIV 1000* | 1 |  |
| COMP 1500 | 1 | Minimum Grade of "C" Required |
| COMP 2140 | 4 | Pre-requisite Course: Must be taken before 2240 and other upper <br> division COMP courses (3000-4000 level) except COMP 3190. <br> Minimum Grade of "C" Required |
| MATH 1910 | 4 | Pre-requisite Course: Must be taken before MATH 1920; Minimum <br> Grade of "C" Required |
| Humanities Elective** | 3 |  |
| Total Hours | 16 |  |

*An Orientation course taken at another University does NOT meet this requirement. Students with less than 60 credit hours must take UNIV 100 at TSU.
**Students must take a 3 credit hour course from the following list of approved general education Humanities courses: AREN 2310, ART 1010, HIST 1000, MUSC 1010, PHIL 1030, RELS 2010 or THTR 1020.

| Spring Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 2 | Hrs. | Semester 2 |
| ENGL 1020 | 3 | Pre---Requisite Course: Must be taken before taking HIST <br> 2010, HIST 2020, HIST 2030, HIST 2060, HIST 2070, or HIST <br> 2700; Minimum Grade "C" Required |
| COMP 2240 | 4 | Pre---requisite Course: Must be taken before COMP 3030, COMP <br> $3040, ~ C O M P ~ 3050, ~ C O M P ~ 3170, ~ C O M P ~ 3230, ~ C O M P ~ 3300, ~$ |
| COMP 4280, COMP 4600, COMP 4800; Minimum Grade of "C" |  |  |
| Required |  |  |,

*Social Sciences elective must be chosen from: AFAS 2010, ANTH 2300, ECON 2010, ECON 2020, GEOG 1010, GEOG 1020, HPSS 1510, POLI 2010, POLI 1010, PSYC 2010, SOCI 2010, WMST 2000, or URBS 2010.

| Fall Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 3 | Hrs. | Semester 3 |
| ENGL LIT* | 3 |  |
| COMP 3190 | 2 | Minimum Grade of "C" Required |
| COMP 2400 | 3 | $\begin{array}{l}\text { Pre-requisite Course: Must be taken before COMP 2600, COMP } \\ 3170, ~ C O M P ~ 3310, ~ C O M P ~ 3410, ~ C O M P ~ 3500, ~ C O M P ~ 3650, ~ a n d ~\end{array}$ |
| COMP 4100; Minimum Grade of "C" Required |  |  |$]$

*Courses within the range of ENGL 2012---2322 will meet this requirement.
${ }^{* *}$ Natural Science must be chosen from: PHYS 2110/2111 (or PHYS 2010/2011), PHYS 2120/2121 (or PHYS 2020/2021), CHEM 1110/1111, CHEM 1120/1121, BIOL 1110/1111, or BIOL 1120/1121.

| Spring Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 4 | Hrs. | Semester 4 |
| COMP 3040 | 3 | Pre-requisite Course: Must be taken before 4700; <br> Minimum Grade of "C" Required |
| COMP 3010 or COMP 3200 | 4 | Pre-requisite Course: Must be taken before COMP 3560, <br> COMP 4700; Minimum Grade of " $C$ " Required |
| Social Behavioral Elective* | 3 |  |
| Natural Science w/Lab** | 4 |  |
| History** | 3 |  |
| Total Hours | $\mathbf{1 7}$ |  |

*The following courses can meet the Social Science elective: AFAS 2010, ANTH 2300, ECON, 2010, GEOG 1010, HPSS 1510, POLI 1010, PSYC 2010, SOCI 2010, WMST 2000, and URBS 2010. Students must remember not to duplicate course option from a previous semester.
**Natural Science must be chosen from: PHYS 2110/2111 (or PHYS 2010/2011), PHYS 2120/2121 (or PHYS 2020/2021), CHEM 1110/1111, CHEM 1120/1121, BIOL 1110/1111, or BIOL 1120/1121.
***History must be from the General Education list of History courses approved by the University. They are currently HIST 2010 and HIST 2020 HIST 2030, HIST 2060, HIST 2070 or HIST 2700.

| Fall Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 5 | Hrs. | Semester 5 |
| COMP 3050 | 3 | Minimum Grade of "C" Required |
| COMP Elective (Programming)* | 3 | Minimum Grade of "C" Required |
| Natural Science w/Lab** | 4 |  |
| History*** | 3 |  |
| Humanities Elective**** | 3 |  |
| Total Hours | $\mathbf{1 6}$ |  |

*COMP Elective (Programming) must be chosen from the following list: COMP 3110, COMP 3120, COMP 3130, COMP 3140, or COMP 3150.
${ }^{* *}$ Natural Science must be chosen from: PHYS 2110/2111 (or PHYS 2010/2011), PHYS 2120/2121 (or PHYS 2020/2021), CHEM 1110/1111, CHEM 1120/1121, BIOL 1110/1111, or BIOL 1120/1121. Students must remember not to duplicate a course option from a previous semester.
***History courses that meet this requirement are: HIST 2010 and HIST 2020. HIST 2030, HIST 2060, HIST 2070, and HIST 2700. Students must remember not to duplicate a course option from a previous semester.
****Students must take 3 credit hour course from the following list of approved general education Humanities courses: AREN 2310, ART 1010, THTR 1020, MUSC 1010, PHIL 1030, HIST 1000 or RELS 2010. Students must remember not to duplicate a Humanities course option from a previous semester.

| Spring Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 6 | Hrs. | Semester 6 |
| COMP 3300 | 3 | Pre-requisite Course: Must be taken before; COMP 4500; <br> Minimum Grade of "C" Required |
| COMP 3310 | 3 | Pre-requisite Course: Must be taken before 4450, 4750; <br> Minimum Grade of "C" Required |
| COMP 3560 | 3 | Minimum Grade of "C" Required |
| MATH Elective* | 3 |  |
| Technical Elective** | 3 |  |
| Total Hours | 15 |  |

*MATH elective must be 2000 or higher level course with approval of academic advisor. MATH 2500, 3130, 3710, 4500, 4724, 4750 , and 4900 are not accepted and will not meet this requirement.
*Technical Electives may be chosen from: Computer Science and Business Information Systems. Courses may also be selected from the following areas:
a. College of Engineering- select courses at any level and from any department in the College of Engineering; however, the credit hours selected from the 1000 level should not be more than three ( 3 credit hours).
b. Natural Science - selection can be from any level.
c. Mathematics - selection can be from the 2000 level and above. Math 1115 may also be accepted. Students must remember not to duplicate a course option from a previous semester.
d. Astronomy - any level.

| Fall Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 7 | Hrs. | Semester 7 |
|  |  | All computer science majors must review degree requirements <br> with the Department Chair at least one semester prior to <br> graduation. |
| COMP 4100 | 3 | Minimum Grade of "C" required |
| COMP 4500* | 2 | Pre-requisite Course: Must be taken before COMP 4510; <br> Minimum Grade of "C" Required |
| COMP 4700 | 3 | Minimum Grade of "C" Required |
| COMP Elective** | 3 | Minimum Grade of "C" Required |
| Technical Elective*** | 3 |  |
| Total Hours | $\mathbf{1 4}$ |  |

*Must be a graduating senior to enroll in these courses
${ }^{* *}$ COMP 1210 and COMP 3000 may not be chosen as a Computer Science elective course. No more than two of the following are allowed: COMP 3110, COMP 3120, COMP 3130, COMP 3140, and COMP 3150.
*Technical Electives may be chosen from: Computer Science and Business Information Systems. Courses may also be selected from the following areas:
a. College of Engineering - select courses at any level and from any department in the College of Engineering; however, the credit hours selected from the 1000 level should not be more than three ( 3 credit hours).
b. Natural Science - selection can be from any level.
c. Mathematics - selection can be from the 2000 level and above. Math 1115 may also be accepted. Students must remember not to duplicate a course option from a previous semester.
d. Astronomy - any level.

| Spring Schedule |  | Milestones |
| :--- | :---: | :--- |
| Semester 8 | Hrs. | Semester 8 |
|  |  | Take Senior Exit Exam and Apply for Graduation |
| COMP 4510 | 1 | Minimum Grade of "C" Required |
| COMP Elective* | 3 | Minimum Grade of "C" Required |
| COMP Elective* | 3 | Minimum Grade of " C " Required |
| Technical Elective** | 3 |  |
| MATH 2050 OR MATH 3100 or STAT 3110 | 3 |  |
| Total Hours | $\mathbf{1 3}$ |  |

${ }^{* *}$ COMP 1210 and COMP 3000 may not be chosen as a Computer Science elective course. No more than two of the following are allowed: COMP 3110, COMP 3120, COMP 3130, COMP 3140, and COMP 3150.
*Technical Electives may be chosen from: Computer Science and Business Information Systems. Courses may also be selected from the following areas:
a. College of Engineering- select courses at any level and from any department in the College of Engineering; however, the credit hours selected from the 1000 level should not be more than three ( 3 credit hours).
b. Natural Science - selection can be from any level.
c. Mathematics - selection can be from the 2000 level and above. Math 1115 may also be accepted. Students must remember not to duplicate a course option from a previous semester.
d. Astronomy - any level.

