

IDN: _____ Printed Name: _____

BS-Information Technology-Major Code: 1044

Concentration Codes: C033 Programming____ C034 Networking____ C037 Security____ C039 General____ C051 Data Analytics____

This degree is available in a guaranteed 8-semester plan for qualified freshmen. **See your advisor to declare your major and sign an official degree plan.**
The prerequisites and corequisites of the degree requirements are subject to change.

MATH/ENGL prerequisite/co-requisite courses if student does not meet placement requirements:

Prerequisites: ENGL0263 _____ MATH 0233 _____ MATH 0304 _____ **Corequisites:** ENGL 0201 _____ MATH 0301 _____

FRESHMAN YEAR- FALL SEMESTER: 16 hours

Courses

| | | | |
|--|---------|--------|-------------|
| English composition requirement | 3 Hours | Note 1 | Grade _____ |
| MATH 2804 Calculus I | 4 Hours | | Grade _____ |
| CS 1044 Foundations of Networking | 4 Hours | Note 2 | Grade _____ |
| CS 1014 Foundations of Programming I | 4 Hours | Note 2 | Grade _____ |
| STEM 1001 College Prep for STEM Majors | 1 Hour | | Grade _____ |

FRESHMAN YEAR- SPRING SEMESTER: 15 hours

Courses

| | | | |
|--|---------|--------|-------------|
| CS 1024 Foundations of Programming II | 4 Hours | Note 2 | Grade _____ |
| CS 1033 Foundations of Operating Systems I | 3 Hours | Note 2 | Grade _____ |
| CS 2022 IT Systems Management | 2 Hours | Note 2 | Grade _____ |
| SPCH 1203 Intro to Speech Communication | 3 Hours | | Grade _____ |
| English composition requirement | 3 Hours | Note 1 | Grade _____ |

SOPHOMORE YEAR- FALL SEMESTER: 16 hours

Courses

| | | | |
|---|---------|--------|-------------|
| CS 1063 Foundations of Operating Systems II | 3 Hours | Note 2 | Grade _____ |
| CS 2003 Data Structures | 3 Hours | Note 2 | Grade _____ |
| CS 2013 Database Systems I | 3 Hours | Note 2 | Grade _____ |
| MATH 1903 Introductory Discrete Math | 3 Hours | | Grade _____ |
| Lab Science requirement | 4 Hours | Note 1 | Grade _____ |

SOPHOMORE YEAR- SPRING SEMESTER: 16 hours

Courses

| | | | |
|--|---------|--------|-------------|
| CS 2033 Web Systems | 3 Hours | Note 2 | Grade _____ |
| CS 2043 Database Systems II | 3 Hours | Note 2 | Grade _____ |
| STAT 2503 Probability and Statistics I or MATH 2854 Calculus II | 3 Hours | Note 5 | Grade _____ |
| Lab Science requirement | 4 Hours | Note 1 | Grade _____ |
| Fine Arts/Humanities/Social Sciences requirement | 3 Hours | Note 1 | Grade _____ |

JUNIOR YEAR- FALL SEMESTER: 15 hours

Courses

| | | | |
|--|---------|------------|-------------|
| CS 3003 Distributed Systems | 3 Hours | Note 2 | Grade _____ |
| CS 3503 IT Security | 3 Hours | Note 2 | Grade _____ |
| CS 3103 Algorithm Design or CS 3223 Routing and Switching | 3 Hours | Note 2 | Grade _____ |
| Concentration requirement/CS elective | 3 Hours | Note 2 & 3 | Grade _____ |
| History/Government Requirement | 3 Hours | Note 1 | Grade _____ |

JUNIOR YEAR- SPRING SEMESTER: 15 hours

Courses

| | | | |
|--|---------|--------|-------------|
| CS 3013 Human Computer Interaction | 3 Hours | Note 2 | Grade _____ |
| CS 3023 Research Methods in Information Tech | 3 Hours | Note 2 | Grade _____ |
| CS 3113 Artificial Intelligence or | | | |

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| | | | |
|--|---------|------------|-------------|
| CS 4213 Identity Management | 3 Hours | Note 2 | Grade _____ |
| Concentration requirement/CS elective | 3 Hours | Note 2 & 3 | Grade _____ |
| Fine Arts/Humanities/Social Sciences requirement | 3 Hours | Note 1 | Grade _____ |

SENIOR YEAR- FALL SEMESTER: 15 hours

Courses

| | | | |
|--|---------|------------|-------------|
| CS 3033 Computer Architecture | 3 Hours | Note 2 | Grade _____ |
| CS 4003 Systems Analysis and Design | 3 Hours | Note 2 | Grade _____ |
| Concentration requirement/CS elective | 3 Hours | Note 2 & 3 | Grade _____ |
| Concentration requirement/CS elective | 3 Hours | Note 2 & 3 | Grade _____ |
| Fine Arts/Humanities/Social Sciences requirement | 3 Hours | Note 1 | Grade _____ |

SENIOR YEAR- SPRING SEMESTER: 12 hours

Courses

| | | | |
|--|---------|------------|-------------|
| CS 4023 Senior Capstone | 3 Hours | Note 2 & 4 | Grade _____ |
| Concentration requirement/CS elective | 3 Hours | Note 2 & 3 | Grade _____ |
| Concentration requirement/CS elective | 3 Hours | Note 2 & 3 | Grade _____ |
| Fine Arts/Humanities/Social Sciences requirement | 3 Hours | Note 1 | Grade _____ |

Total Hours: 120 At least 40 hours must be upper-level

NOTES

1. General Education Core requirements, see below on the last page.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Concentrations/CS Electives, 18 hours. Select two nine-hour concentrations, or one nine-hour concentration and nine hours of upper-level CS electives, or the data analytics concentration for 18 hours, or the general concentration with eighteen upper-level CS elective hours with approval from advisor.
4. Requires a grade of C or higher.
5. Consult with advisor to select either STAT 2503 or MATH 2854.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

Depending on the Concentration you choose see below for course choices:

Programming C033

Select three courses from the following:

Courses

| | | | |
|---|---------|--------|-------------|
| CS 3123 Business Application Programming I | 3 Hours | Note 2 | Grade _____ |
| CS 3133 Business Application Programming II | 3 Hours | Note 2 | Grade _____ |
| CS 3143 Game Design and Development | 3 Hours | Note 2 | Grade _____ |
| CS 3403 .Net Application Programming | 3 Hours | Note 2 | Grade _____ |
| CS 3533 Assembly Language Programming | 3 Hours | Note 2 | Grade _____ |
| CS 3543 Systems Programming | 3 Hours | Note 2 | Grade _____ |
| CS 4103 Mobile Application Development | 3 Hours | Note 2 | Grade _____ |
| CS 4133 Cloud Application Development | 3 Hours | Note 2 | Grade _____ |
| CS 4143 Advanced Artificial Intelligence | 3 Hours | Note 2 | Grade _____ |
| CS 4153 Advanced Algorithms | 3 Hours | Note 2 | Grade _____ |
| CS 4933 Competitive Programming | 3 Hours | Note 2 | Grade _____ |

Networking C034

Select three courses from the following:

Courses

| | | | |
|----------------------------|---------|--------|-------------|
| CS 3233 Network Services | 3 Hours | Note 2 | Grade _____ |
| CS 4223 Computing at Scale | 3 Hours | Note 2 | Grade _____ |
| CS 4233 Advanced Routing | 3 Hours | Note 2 | Grade _____ |
| CS 4503 Network Security | 3 Hours | Note 2 | Grade _____ |

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Security C037

Select three courses from the following:

Courses

| | | | |
|------------------------------|---------|--------|-------------|
| CS 3513 Applied Cryptography | 3 Hours | Note 2 | Grade _____ |
| CS 3523 Computer Forensics | 3 Hours | Note 2 | Grade _____ |
| CS 3543 Systems Programming | 3 Hours | Note 2 | Grade _____ |
| CS 4503 Network Security | 3 Hours | Note 2 | Grade _____ |
| CS 4523 Cyber Crimes | 3 Hours | Note 2 | Grade _____ |

General C039

Courses

Select any six upper-level CS elective courses with advisor approval. 18 Hours Note 2 Grade _____

Data Analytics C051

Select six courses from the following:

Courses

| | | | |
|-------------------------------------|---------|--------|-------------|
| CS 3323 Computer Graphics | 3 Hours | Note 2 | Grade _____ |
| CS 3333 Big Data | 3 Hours | Note 2 | Grade _____ |
| CS 4153 Advanced Algorithms | 3 Hours | Note 2 | Grade _____ |
| CS 4323 Data Analytics | 3 Hours | Note 2 | Grade _____ |
| CS 4333 Machine Learning | 3 Hours | Note 2 | Grade _____ |
| CS 4343 Natural Language Processing | 3 Hours | Note 2 | Grade _____ |
| CS 4933 Competitive Programming | 3 Hours | Note 2 | Grade _____ |
| STAT 3503 Mathematical Statistics I | 3 Hours | Note 2 | Grade _____ |
| MATH 3203 Applied Linear Algebra | 3 Hours | Note 2 | Grade _____ |
| MATH 4443 Combinatorics | 3 Hours | Note 2 | Grade _____ |

Transfer Course Information

The Arkansas Course Transfer System (ACTS) contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and the equitable treatment of the application of credits for the admissions and degree requirements. Courses transferability is not guaranteed for courses listed in ACTS as "No Comparable Courses." ACTS-Arkansas Course Transfer System <http://acts.adhe.edu> -select Course Transfer. See Acceptance of Transfer Credits section of the current academic catalog for a complete list of transfer provisions.

Student Degree Program Requirements

A student's degree program requirements are those specified in the catalog in effect at the time of declaration of program major. If not on the Guaranteed 8-semester degree plan, students may choose to meet the program requirements specified in the catalog for a later year from when they began their program of study. Students must meet the above program requirements and the graduation requirements as indicated by institutional and college policy. The program can be changed only with the approval of the official advisor.

If original courses are eliminated, students may be required to meet new curriculum requirements in the degree program. If students are not enrolled for two or more consecutive terms (excluding summer terms), they must re-enter under the program requirements of the current catalog. Students are responsible for understanding program requirements and changes.

Guaranteed 8-Semester Degree Completion Program Pursuant to Act 1014 of 2005, qualified first-time freshmen with a declared major may elect to participate in the guaranteed 8-semester degree completion program. Students must follow the above degree plan and meet all requirements as outlined in the Guaranteed 8-semester Degree Completion Program contract. The contract and this degree plan must be signed and filed with the advisor before the first day of classes for the student's first term of attendance. The official copy of the contract and degree plan are filed in the Records Office.

Approved by Dr. Georgia Hale, March 1, 2019-Catalog Year 2019-2020. This document is not official until signed and dated by both the student and an authorized university representative.

Student Signature _____ Date _____

Advisor Signature _____ Date _____

IDN: _____ Printed Name: _____

UAFS General Education Core Requirements (Your degree plan may have specific requirements that are listed above.)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------|---------------------------------------|---|---|------------------------------------|--|--|--|--|--|---|--|-------------------------------------|--|--|--|
| <p>English Composition – one of the following sequences required ENGL 1203 Composition I ENGL 1213 Composition II OR ENGL 1233 Honors Composition RHET 2863 Advanced Composition</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Mathematics – one course required MATH 1303 College Mathematics and Quantitative Literacy MATH 1403 College Algebra MATH with MATH 1403 as a prerequisite</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Fine Arts – one course required AHIS 2863 Survey of Art History I AHIS 2873 Survey of Art History II HUMN 2563 Humanities Through the Arts HUMN 2663 Intro to Film MUSI 2763 Music Appreciation</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>History/Government – one course required HIST 2753 US History I HIST 2763 US History II POLS 2753 American National Government</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Humanities – one course required ENGL 2013 Intro to Global Literature ENGL 2023 Intro to American Literature PHIL 2753 Intro to Philosophy RELI 2303 World Religions</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Social Sciences – two courses, from different areas ANTH 2803 Cultural Anthropology ECON 2803 Principles of Macroeconomics or ECON 2813 Principles of Microeconomics GEOG 2753 World Regional Geography or GEOG 2773 Human Geography HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500 HIST 2753 US History I* or HIST 2763 US History II* POLS 2753 American National Government* PSYC 1163 General Psychology SOCI 2753 Introduction to Sociology <i>*If not used to meet History/ Government requirement (a course may only be used once)</i></p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Lab Science – two lecture/lab combinations required</p> <table border="0"> <tr> <td>BIOL 1153/1151 Biological Science/Lab</td> <td>PHSC 2653/2651 Earth Science/Lab</td> </tr> <tr> <td>BIOL 2203/2201 Human Anatomy/Lab</td> <td>PHSC 2713/2711 Physical Science/Lab</td> </tr> <tr> <td>BIOL 2213/2211 Human Physiology/Lab</td> <td>PHYS 2803/2811 College Physics I/Lab</td> </tr> <tr> <td>BIOL 2303/2301 General Botany/Lab</td> <td>PHYS 2823/2831 College Physics II/Lab</td> </tr> <tr> <td>BIOL 2503/2501 General Microbiology/Lab</td> <td>PHYS 2903/2911 University Physics I/Lab</td> </tr> <tr> <td>BIOL 2703/2701 General Zoology/Lab</td> <td>PHYS 2923/2931 University Physics II/Lab</td> </tr> <tr> <td>CHEM 1303/1301 Chemical Principles/Lab</td> <td></td> </tr> <tr> <td>CHEM 1403/1401 College Chemistry I/Lab</td> <td></td> </tr> <tr> <td>CHEM 1413/1411 College Chemistry II/Lab</td> <td></td> </tr> <tr> <td>GEOL 1253/1251 Physical Geology/Lab</td> <td></td> </tr> <tr> <td>PHSC 2503/2501 Fundamentals of Astronomy/Lab</td> <td></td> </tr> </table> | | BIOL 1153/1151 Biological Science/Lab | PHSC 2653/2651 Earth Science/Lab | BIOL 2203/2201 Human Anatomy/Lab | PHSC 2713/2711 Physical Science/Lab | BIOL 2213/2211 Human Physiology/Lab | PHYS 2803/2811 College Physics I/Lab | BIOL 2303/2301 General Botany/Lab | PHYS 2823/2831 College Physics II/Lab | BIOL 2503/2501 General Microbiology/Lab | PHYS 2903/2911 University Physics I/Lab | BIOL 2703/2701 General Zoology/Lab | PHYS 2923/2931 University Physics II/Lab | CHEM 1303/1301 Chemical Principles/Lab | | CHEM 1403/1401 College Chemistry I/Lab | | CHEM 1413/1411 College Chemistry II/Lab | | GEOL 1253/1251 Physical Geology/Lab | | PHSC 2503/2501 Fundamentals of Astronomy/Lab | |
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| BIOL 2213/2211 Human Physiology/Lab | PHYS 2803/2811 College Physics I/Lab | | | | | | | | | | | | | | | | | | | | | | |
| BIOL 2303/2301 General Botany/Lab | PHYS 2823/2831 College Physics II/Lab | | | | | | | | | | | | | | | | | | | | | | |
| BIOL 2503/2501 General Microbiology/Lab | PHYS 2903/2911 University Physics I/Lab | | | | | | | | | | | | | | | | | | | | | | |
| BIOL 2703/2701 General Zoology/Lab | PHYS 2923/2931 University Physics II/Lab | | | | | | | | | | | | | | | | | | | | | | |
| CHEM 1303/1301 Chemical Principles/Lab | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM 1403/1401 College Chemistry I/Lab | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM 1413/1411 College Chemistry II/Lab | | | | | | | | | | | | | | | | | | | | | | | |
| GEOL 1253/1251 Physical Geology/Lab | | | | | | | | | | | | | | | | | | | | | | | |
| PHSC 2503/2501 Fundamentals of Astronomy/Lab | | | | | | | | | | | | | | | | | | | | | | | |