# Texas Woman’s University

**Department of Mathematics and Computer Science / College of Arts and Sciences**

## Bachelor of Science in Informatics - 120 hours

<table>
<thead>
<tr>
<th>Name</th>
<th>ID#</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Permanent Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Local Address</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expected date of graduation</th>
<th>Catalog year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### State Core Courses (42 hrs.)

<table>
<thead>
<tr>
<th>Communication (6 hrs. required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1013</td>
</tr>
<tr>
<td>ENG 1023</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Language, Philosophy, and Culture (3 hrs. required)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>American History (6 hrs. required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1013</td>
</tr>
<tr>
<td>HIST 1023</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Government / Political Science (6 hrs. required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOV 2013</td>
</tr>
<tr>
<td>GOV 2023</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics (3 hrs. required)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Life &amp; Physical Sciences (6 hrs. required)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Creative Arts (3 hrs. required)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Social &amp; Behavioral Sciences (3 hrs. required)</th>
</tr>
</thead>
</table>

### Component Area Option [CAO] (6 hrs. required)

3 hours from:
- Multicultural Women’s Studies (3 hrs.)

and 3 hours from:
- Mathematics (3-4 hrs.)
- UNIV 1231 (1 hr.)
- Wellness (1-3 hrs.)

### Major (42 hrs.)

<table>
<thead>
<tr>
<th>“C” or better required in each course</th>
</tr>
</thead>
</table>

#### Required Courses
- CSCI 1423 Programming Fundamentals I
- Math 1713 Elementary Stats II
- INF/CS 2##3’ Introduction to Informatics
- CSCI 2493 Programming Fundamental II
- CSCI 3013 Computational Thinking
- CSCI 3053 Data Structure
- CSCI 3423 Database Management
- CSCI 4313 Networking & Data Communications
- CS/NURS/HS 4##3’ Interprofessional Capstone

#### Discipline Specific Electives (for a total of 5)

Data Science Discipline: Choose 3-5 from:
- CSCI 3113, 3613, 3413, 3803
- CSCI 4303, 4523, 4803, 4823
- MATH 4013
- BUS 4543
- CSCI 4##3’ Big Data and High Performance Computing
- CSCI 4##3’ Intelligent Systems
- INF/CS 2##3’ Information Ethics, Policy & Security
- LS 2##3’ User Experience Basics
- LS 3##3’ Metadata
- LS 3##3’ Information Retrieval

Information Science Discipline: Choose 3-5 from:
- CSCI 3803
- CSCI 4303, 4823
- CSCI 4##3’ Big Data and High Performance Computing
- LS 2##3’ User Experience Basics
- LS 3##3’ Metadata
- INF/CS 2##3’ Information Ethics, Policy & Security
- INF/LS 3##3’ Project Management
- INF/LS 3##3’ Interface Design & Development

Optional Clinical/Health Electives: Choose maximum of 2
- HS 2813, 3033, 3133, 3403, 3413
- HS 4573, 4743
- NURS 4##3’ Applied Statistics in Healthcare
- HS 3##3’ Current Trends in Pop. Health & Health Info
- HS 3##3’ Legal & Ethical Issues in Health Informatics
- HS 4##3’ Overview of Public Health Surveillance Sys.
- INF/CS 3##3’ Interface Design & Development
- INF/CS 3##3’ Project Management

---

1 Course satisfies 3 hr. Global Perspectives graduation requirement.

2 Successful completion (D or better) of UNIV 1231 is required for all first year students entering TWU having completed 12 or fewer hours (FTIC).

3 Course under development
OTHER REQUIREMENTS (18 hrs.)
(“C” or better required)

Program Approved Minor (see advisor)

Data Science Minor: Choose 6, only those not previously included in major:
CSCI 3113, 4303, 4523, 4823
MATH 2014, 4013
BUS 4543
CSCI 4##3' Big Data and High Performance Computing
CSCI 4##3' Intelligent Systems
Any course not previously selected from the Data Science Discipline Specific courses

Information Science Minor: Choose 6, only those not previously included in major:
CSCI 4823
CSCI 4##3' Big Data and High Performance Computing
LS 3##3' Information Access & Retrieval
LS 3##3' Information Organization
LS 3##3' Open Access Repositories
LS 3##3' Integrated Information Systems
LS 3##3' Digitization
LS 3##3' Information Agencies & Services
NURS 21#3' Intro to Health Informatics
NURS 32#3' Data Applications for Health Informatics
NURS 42#3' Interactive Design in Health Informatics
Any course not previously selected from the Information Science Discipline Specific courses

NOTES:
1. By state law the candidate must have credit for six (6) semester hours of American History. Texas History may substitute for three (3) semester hours.
2. By state law the candidate must have credit for six (6) semester hours of federal and state constitutions. ROTC credit at a senior institution may be substituted.
3. Majors: Majors are defined as a minimum of thirty (30) semester hours. One-half (1/2) of these hours must be advanced. A Minimum of 36 advanced hours is required for any baccalaureate degree.
4. Minors: Most minors at Texas Woman’s University include a minimum of eighteen (18) hours. A minor includes a minimum of 6 credit hours at the advanced level. Students should consider the state excess hours rule when considering earning a minor.
5. At least one-half (1/2) of the upper level courses in the major and at least one-half of the upper level courses in the minor must be completed at TWU.
6. A Minimum of 25% of the credit hours must be taken at TWU. Correspondence and credit-by-examination courses do not satisfy residence requirements for graduation.
7. A student who holds a valid bachelor’s degree from another accredited college or university and who wishes to earn a second bachelor’s degree at TWU must complete the following legal requirements: Six (6) semester hours of American History, six (6) semester hours of national and state governments, and thirty-six (36) semester hours of advanced studies, and meet departmental and residential requirements.
8. Students may transfer no more than 90 semester hours from junior or community colleges. There is no limit for transfer credit from senior institutions.

In accordance with Leg. House Bill 1922, an individual is entitled to:
request to be informed about the information collected about them;
receive and review their information; and correct any incorrect information.

Disclosure of your social security or student ID number is required to access your transcripts and contact information at Texas Woman’s University. Your social security or student ID number will be used as a unique number to identify you. Any further disclosure of your social security number will be governed by the Public Information Act (Chapter 552 of the Texas Government Code).