WEB AND MOBILE DEVELOPMENT

With the global impact of web and mobile technologies, interactive web and mobile technology professionals are in demand. The Web and Mobile Development Program prepares students for this role, teaching them to create responsive websites, and web and mobile applications.

This degree program offers front-end web development, back-end web development, and hybrid mobile development. Front-end web development focuses on developing the web pages that are viewed in a browser, while back-end web development deals with server-side technologies and connecting to databases. Hybrid mobile development uses web languages to create mobile applications that can run on many different mobile devices.

Three certificates are also offered, which can be applied toward the AAS degree. The certificates provide the knowledge to update current job requirements. After successfully completing a certificate, students may continue to work toward an AAS degree in Web and Mobile Development.

Web and mobile skills offered in our degrees include HTML, CSS, CSS Frameworks (Bootstrap), JavaScript, JavaScript Frameworks (jQuery, REACT, NodeJS, and others), C#.NET, PHP and Python. We also offer skills in using GIT repositories, troubleshooting and testing code, current industry development cycles, and best practices in web and mobile accessibility and usability.

Students planning to transfer to a college or university should check with Collin academic advisors. Also check the degree requirement of the intended transfer college prior to beginning this program to verify course degree applicability.

Program Options

AAS – Web and Mobile Development

First Year - First Semester Required Courses
- COSC 1315 Intro to Computer Programming
- COSC 1336 Programming Fundamentals I
- ENGL 1301 Composition I
- ITSE 1301 Web Design Tools - Graphics
- ITSE 1311 Beginning Web Programming

First Year - Second Semester Required Courses
- IMED 1341 Interface Design
- ITNW 1358 Network+
- ITSE 1330 Introduction to C# Programming
- ITSE 1359 Intro Script Languages Python
- COSC 1337 Programming Fundamentals II (Java)
- ITSE 2302 Intermediate Web Programming
- ITSE 2309 Database Programming - SQL

First Year - Third Semester Required Courses
- AAS - Humanities/Fine Arts - take one course.
- ARTS 1301 Art Appreciation
- ARTS 1303 Art History I
- ARTS 1304 Art History II
- ARTS 1313 Foundations of Art
- DANC 2303 Dance Appreciation
- DRAM 2311 History of Theater I
- DRAM 2362
- DRAM 2366 Intro to Cinema
- ENGL 2322 British Literature I
- ENGL 2323 British Literature II
- ENGL 2327 American Literature I
- ENGL 2328 American Literature II
- ENGL 2332 World Literature I
- ENGL 2333 World Literature II
- ENGL 2342 Intro Lit I-Short Story & Nove
- ENGL 2343 Intro Lit II-Poetry & Drama
- HIST 2311 Western Civilization I
- HIST 2312
- HIST 2321 World Civilizations I
- HIST 2322 World Civilizations II
- HUMA 1301 Intro to Humanities I
- MUSI 1306 Music Appreciation
- MUSI 1307 Music Literature
- MUSI 1310 American Music
- PHIL 1301 Introduction to Philosophy
- PHIL 1304 Intro to World Religions
- PHIL 2303 Intro to Formal Logic
- PHIL 2306 Introduction to Ethics
- PHIL 2307 Intro/Social & Political Phil
- PHIL 2321 Philosophy of Religion
### AAS - Social/Behavioral Sciences - take one course.

- **ANTH** 2302 Introduction to Archeology
- **ANTH** 2346 General Anthropology
- **ANTH** 2351 Cultural Anthropology
- **ECON** 1301 Introduction to Economics
- **ECON** 2301 Principles of Macroeconomics
- **ECON** 2302 Principles of Microeconomics
- **GOVT** 2305 Fed Govt (Fed const & topics)
- **GOVT** 2306 Tex Govt (Tex const & topics)
- **PSYC** 2301 General Psychology
- **SOCI** 1301 Introduction to Sociology
- **SOCI** 1306 Social Problems
- **HIST** 1301 United States History I
- **HIST** 1302 United States History II
- **HIST** 2301 Texas History

### Second Year - First Semester Required Courses

- **ITSE** 1306
- **ITSE** 1333
- **ITSE** 2353 Advanced C# Programming

### Second Year - Second Semester Required Courses

- **INEW** 2334 Advanced Web Programming
- **ITSE** 2374 Web and Mobile Application Dev
- **ITSC** 2380 Co-op Ed-Comp & Info Scis, Gen

### Elective - Choose one course from the following:

- **ITSE** 2313 Web Authoring
- **ITSC** 1316 Linux Install & Configuration
- **ITSE** 2347 Advanced Database Programming
- **ITSE** 1373
- **ITSE** 2310
- **ITSE** 2343

### First Year - Second Semester Required Courses

- **ITSE** 2313 Web Authoring
- **INEW** 2334 Advanced Web Programming
- **ITSE** 2374 Web and Mobile Application Dev
- **ITSC** 2380 Co-op Ed-Comp & Info Scis, Gen

### CER – Full-stack Web Developer

#### First Summer Semester Required Courses

- **COSC** 1315 Intro to Computer Programming
- **ITSE** 1311 Beginning Web Programming

#### First Year - First Semester Required Courses

- **IMED** 1341 Interface Design
- **ITNW** 1358 Network+
- **ITSE** 1301 Web Design Tools - Graphics
- **ITSE** 1330 Introduction to C# Programming
- **ITSE** 1359 Intro Script Languages Python
- **ITSE** 2302 Intermediate Web Programming

#### First Year - Second Semester Required Courses

- **ITSE** 1306
- **INEW** 2334 Advanced Web Programming
- **ITSE** 2353 Advanced C# Programming
- **ITSE** 2309 Database Programming - SQL

### Elective: Select one course from the following:

- **ITSC** 1316 Linux Install & Configuration
- **ITSE** 2313 Web Authoring
- **ITSE** 1333

### Second Summer Semester Required Course

- **ITSE** 2374 Web and Mobile Application Dev

### CER – Mobile Application Developer

#### First Summer Semester Required Courses

- **COSC** 1315 Intro to Computer Programming
- **COSC** 1336 Programming Fundamentals I
- **ITSE** 1311 Beginning Web Programming

#### First Year - First Semester Required Courses

- **IMED** 1341 Interface Design
- **ITSE** 1330 Introduction to C# Programming
- **ITSE** 2302 Intermediate Web Programming

#### First Year - Second Semester Required Courses

- **INEW** 2334 Advanced Web Programming
- **COSC** 1337 Programming Fundmals II (Java)
- **ITSE** 1333
Elective: Select from one of the following:

ITSE 1373
ITSE 2309 Database Programming - SQL
ITSE 2310

**Second Summer Semester Required Course**

ITSE 2343
ITSC 2380 Co-op Ed-Comp & Info Scis, Gen
ITSE 2374 Web and Mobile Application Dev

**OSA – JavaScript Development**

**Required Courses**

ITSE 1311 Beginning Web Programming
ITSE 2302 Intermediate Web Programming
INEW 2334 Advanced Web Programming

**OSA – .Net Web Development**

**Required Courses**

COSC 1315 Intro to Computer Programming
ITSE 1311 Beginning Web Programming
ITSE 1330 Introduction to C# Programming
ITSE 2353 Advanced C# Programming

**OSA – Web Foundation**

**Web Foundation**

IMED 1341 Interface Design
ITSE 1301 Web Design Tools - Graphics
ITSE 1311 Beginning Web Programming
ITSE 2302 Intermediate Web Programming