

**Web Development and Administration**

(Academic Plan code 1101017079 subplan code 110101706)

The Web Development and Administration option/certificate will provide students training in designing, deploying, and managing a web site from both a hardware and software perspective. This option will prepare students for careers as web site developers, webmasters, and web administrators. A capstone class in web site implementation will encompass all facets of the program of study, and will provide experience and a job portfolio.

A KCTCS Institution

Students entering this program will need to have basic computer skills such as would be obtained through the CIS 100 course (Introduction to Computers) or equivalent.

**General Education Core courses:**

- ENG 101 *Writing I*
- ENG 102 *Writing II*
- Oral Communication Course
- Social Interaction Sciences Course
- Heritage/Humanities Course
- MA 109/MT 109/MT 150 *College Algebra*
- PH 171 *Applied Physics* OR PHY 217 *Applied Industrial Physics* OR PHY 152 *Introduction to Physics II* and PH 162 *Introduction to Physics Laboratory II*

**Technical Core courses:**

- CIS 120 *Program Design and Development*
- ET 107 *Computer Applications for Technicians* OR CIS 130 *Microcomputer Applications*
- ET 232 *Software Maintenance* OR CIS 110 *Operating Systems Concepts*
- ET 234 *Hardware Maintenance*
- NIS 160 *Networking Core Technologies* OR IT 120 *Cisco Internetworking*
- IT 170 *Introduction to Database Design*
- IT 132 *Web Page Development* OR IT 130 *Web Site Design and Production*
- CIS 148 *Visual Basic I* OR CIS 149 *Java Programming I*

**Web Development and Administration option courses:**

- CIS 248 *Visual Basic II - Desktop Applications* OR CIS 249 *Java Programming II*
- NIS 150 *Introduction to Perl Scripting* OR NIS 152 *Introduction to Javascript*
- NIS 275 *Internet Servers Administration*
- IT 130 *Web Site Design and Production \** OR IT 132 *Introduction to HTML\**
- IT 230 *Advanced Web Page Development*
- IT 235 *Data-driven Web Design*
- IT 295 *Web Development and Administration Practicum: Site Implementation*
- Technical Elective (3 hours)

\*Must take either IT 130 or IT 132 - which ever course was not taken in the technical core

**Technical Elective Courses:**

- IT 134 *Macromedia Flash*
- IT 147 *SQL*
- IT 236 *Active Server Pages*
- IT 240 *XML*
- IT 270 *Database Systems - Implementation & Management*

NIS 211 *Administering Microsoft Windows Professional*  
 NIS 213 *Administering Microsoft Windows Server*  
 NIS 246 *Microsoft SQL Server System Administration Programming or Scripting Language* (must be different than programming language from technical core or option)  
 Other technical courses approved by the Program Coordinator

