

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 Course
- Heritage/Humanities Course
- MT 150 *College Algebra*
- Science Course with Lab

*All incoming freshmen are required to successfully complete GE 100 or GE 101 within their first 18 hours.
Note: this does not apply to transfer students

Technical Core courses:

- CIS 120 *Program Design and Development*
- ET 107 *Computer Applications for Technicians* OR CIS 130 *Microcomputer Applications*
- Complete **one** of the following pairs of courses:
 - ET 232 *Software Maintenance* OR CIS 110 *Operating Systems Concepts* AND
 - ET 234 *Hardware Maintenance*
- OR**
- IT 105 *Computer Maintenance Essentials* AND
- IT 205 *Advanced Computer Maintenance*
- Introductory Networking Course
- 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 *Perl Programming* OR NIS 152 *Introduction to Javascript*
- NIS 275 *Internet Servers Administration* OR NIS 213 *Administering Microsoft Windows Server*
- 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

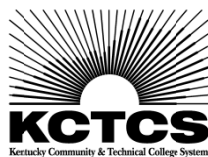
Possible Technical Elective Courses:

- 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* OR NIS 275 *Internet Servers Administration* (must be different from the core)
 - 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

Introductory Networking Courses:

- NIS 160 *Networking Core Technologies*
- IT 120 *Networking Fundamentals*
- IT 121 *Networking for Home and Small Business*



For additional information contact
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