

WEB DEVELOPMENT CERTIFICATE

WEB DEVELOPMENT CERTIFICATE REQUIREMENTS:

- 18 credits from the approved courses below
- Obtain at least a 2.50 GPA in courses used to complete the certificate
- At least 8 credits must be completed at UWM.
- No course may be taken on a credit/no credit basis

REQUIRED COURSES-18 CREDITS

Computer Programming (3 credits) - Must complete at least **ONE** of the following:

Comp Sci 202 Python	Math 105*
Comp Sci 351 Data Structures & Algorithms	Comp Sci 251*, Math 116 or 211

Web Documents (3 credits) - Must complete at least **ONE** of the following:

Art 325 Web Design II	Admissions to Art or Inter-Arts/IAT prog; & Art 324(P)
CompSci 113 Web Document Production	None
InfoSt 320 Web Design II	InfoSt 240(P)

Web Programming (3 credits) - Must complete at least **ONE** of the following:

CompSci 361 Introduction to Software Engineering	CompSci 351*, English 102*
CompSci 481 Server-side Internet Programming	Jr St; CompSci 202*; CompSci 113(C), InfoSt 240(C), or Art 324(C)

Web Applications (3 credits) - Must complete this course

CompSci 482 Rich Internet Application	Jr St; CompSci 361(P) or 481(P)
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Electives (6 Credits) – Select 2 courses from the list below:

Art 218 2D Design Strategies	None
Art 224 Dynamic Typography	Art 101, 108, 118; or pre-Inter-Arts/IAT program,
Art 325 Multimedia Design	Admissions to Art or Inter-Arts/IAT prog; & Art 324(P)
Bus Adm 531 Developing Web Applications Using Web Services	Jr St, Bus Adm 432, Admission to Business major
Bus Adm 532 Web Development for Open Business Systems	Jr St, Bud Adm 432, Admission to Business major
Commun 313 Human Communication & Technology	Jr St, English Competency
Commun 413 Rhetoric & the Internet	Jr St, English Competency
CompSci 112 Introduction to the Internet & WWW	None
CompSci 150 Survey of Computer Science	None
CompSci 425 Introduction to Data Mining	Jr St, CompSci 251, Math 221 or 232
CompSci 444 Intro to Text Retrieval & its Appl in Biomedicine	Jr St, CompSci 351 or HCA 442
CompSci 469 Introduction to Computer Security	Jr St, CompSci 251*, 317*
CompSci 530 Computer Networks Laboratory	Jr St, CompSci 520
CompSci 552 Advanced Object Orientation Programming	Jr St, C or better in both CompSci 351(P) & 361(P)
CompSci 557 Introduction to Database Systems	Jr St, CompSci 251, 315
Currins 530 Workshop in Computer Instruction in the Schools	Jr St
Currins 547 Curricular Applications of the Internet	Jr St, Admissions to the School of Education
English 439 Document Design	Jr St, English 205, 206, or 207
HCA 444 Intro to Text Retrieval & its Appl in Biomedicine	Jr St, CompSci 351 or HCA 442
HCA 542 Healthcare Database Design & Management	HCA 541(441) or L&I Sci 340
InfoSt 325 Information Security I	Jr St
InfoSt 370 Data Analysis & Visualization for the Information Prof.	Satisfaction of GER QL Part A
InfoSt 375 Multimedia Web Design	InfoSt 240
InfoSt 685 Electronic Publishing and Web Design	Jr St

***C or better in prerequisite**

Prerequisite coursework may be required.

It is important that you meet with an advisor to ensure you understand all requirements.

*For more information or to declare a Web Development Certificate,
Contact the CEAS Student Services Office at 414-229-4667 or in EMS E386.*