Melissa E. Holmes

_____

Contact info suppressed for web
_____

Professional Work
University teaching
Full-stack web development
Instructional design
Data analysis and reporting
IT management

Current Tools / Platforms
Visual Studio 2022
Adobe Creative Suite
Canvas LMS
JetBrains products
GitHub
MS Office / Outlook / OneDrive
Python / IDLE / Django
Bootstrap
WAMP stack / MySQL
Microsoft Access and Excel
MongoDB

Programming Languages
Python   Java
C/C++   PHP
HTML   CSS
JavaScript SQL

Curriculum and Assessment
Ongoing computer science
 curriculum revisions 2013-2020
Wrote program assessment
 reports 2014 – 2019
Served on Curriculum Review
 and Assessment Committee
Attended ABET Training 2025

Creative
Digital imagery
Watercolor and acrylic painting
Pottery
Digital photography

Education and Licensure
- Ed.D. Educational Leadership, University of Montana   2016
- M.S. Computer Science, University of Montana   2007
- B.S. Computer Science, Montana Tech   1996
- Montana Educator License with endorsements in Computer Technology and Graphic Arts (grades 5-12)   SEID: 134773

Employment History
Computer Science Faculty Member   2013 – 2025
- Instructor II, Montana Tech, 2022-present
- Lecturer, The University of Montana, 2019-2022
- Assistant/Associate Professor, Rocky Mountain College, 2013 – 2019

These three similar positions focused on teaching a heavy load of undergraduate Computer Science courses while advising students; performing outreach and service; and participating in faculty matters. Campus committees included Curriculum Review Committees (Tech and UM), Faculty Senate (UM), Web Guidance Committee (Tech), Assessment Committee (RMC) and a few others.

Adjunct Faculty, Montana Tech and Helena College   2011 – 2013
Taught computing classes on a part-time basis at both schools.

Web Developer, Marketing & PR, Montana Tech   2007 – 2012
Implemented the Cascade CMS. Tasks included coordination, web design, photography, videography, digital editing, social media, and writing for web and print publications.

Instructional Designer, UMOnline   2002 – 2007
Helped launch a new online learning program at UM. Coordinated the operation of the LMS. Created and implemented faculty training curriculum. Provided course development and user support for university classes as well as external professional development programs.

IT Director, Rural Institute on Disabilities   1999 – 2002
Supervised four IT staff in a large grant-funded organization. Responsible for networking and security, acquiring equipment, maintaining LAN and Web servers, desktop support, web development and grant writing tasks.

Data Manager, Flathead Lake Biological Station   1997 – 1999
Managed hardware, software and LAN/WAN for remote research facility. Ported a large long-term water quality database to modern software (Access, then SQL Server.) Maintained web site. Worked on specialized hardware/software for laboratory and fieldwork devices.

Programmer Analyst, Montana Power Company   1993 – 1997
Ported many small flat-file mainframe databases to RDBMS. Designed and implemented a database system to track employee safety information with data feeds from multiple departments. Performed statistical analysis and prepared safety reports for management, power organizations and OSHA.