Mountain Empire Community College
Publication Change Form

Please fill in and print this page to request changes to MECC's publications. This process provides for MECC's publications on the college's web site to be maintained with up-to-date information, unlike the printed copies that are updated once a year.

Change Applies to: ☑ Catalog ☐ Student Handbook ☐ Other _____

Type of Change: ☐ Update ☐ Deletion ☑ Addendum

Does the change need to be applied to the website? ☑ Yes ☐ No

If yes, which web page(s) requires the change? Software Development II (221-299-02)

Current Page Number: 241 _____ -or- Proposed Page Number: _____

Effective Date: Fall 2019

Brief Description of Change:

Remove ITP 220 Java Programming II
Remove ITP 251 Systems Analysis & Design
Add ITE 131 Survey of INternet Services
Change total hours form 18 to 16

Remove Chris Bishop from Contact add Ritchie Deel

Person Submitting Change:

Tommy Clements

Name (print)

Signature

Vice President of Academic Affairs and Workforce Solutions:

Signature

3-22-19

Date

Send this form and attachments to the office of the Vice President of Academic Affairs and Workforce Solutions.

Career Studies Certificate

SOFTWARE DEVELOPMENT II (221-299-02)

Purpose
The Software Development II Career Studies Certificate is designed to prepare students to enter the workforce as software developers who can create and test business-oriented software applications. The curriculum includes general and specialized computer courses in advanced level programming with an emphasis on systems analysis and project integration. This certificate includes both classroom and lab instruction.

Program Learning Outcomes (PLO): Upon successful completion, students will be able to:
1. Write application software that makes efficient and secure use of operating system services.
2. Develop an information system using accepted software development processes.
3. Produce user applications using a specialized technology that builds upon fundamental software development practices.
4. Analyze a problem and identify the appropriate data, hardware components and/or software requirements to develop a feasible solution.
5. Use current tools and practices that support the software documentation process.
6. Document system requirements and/or develop materials for clients in the proper use of hardware or software.

Employment Opportunities
Job opportunities in the immediate area and throughout the nation abound for students trained in computers. According to the Bureau of Labor Statistics' website, employment of software developers is projected to grow 24% from 2016 to 2026, which is much faster than the average for all occupations. Software developers will be needed to respond to an increased demand for computer software.

SOFTWARE DEVELOPMENT II PROGRAM OF STUDY

Course #	Course Title	Credit	Pre-Requisite Courses (if applicable)
ITE 131	Survey of Internet Services	1	
ITP 225	Web Scripting Languages	3	ITD 110 co-requisite
ITP 232	C++ Programming II	3	ITP 132
ITP 247	Native Mobile Programming	3	ITP 220
ITP 270	Programming for Cybersecurity	3	
ITP 298	Capstone/Project Integration	3	
TOTAL PROGRAM CREDITS		**16**	

Notes and Additional Curriculum Options
Course substitutions may be available. Please see your advisor

FOR FURTHER INFORMATION, CONTACT:

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