

Eastern Illinois University
New Course Proposal
DGT 4823, Web Content Management Systems

Banner/Catalog Information (Coversheet)

1. ☒ **New Course** or ☐ **Revision of Existing Course**
2. **Course prefix and number:** *DGT 4823*
3. **Short title:** *Web Content Management*
4. **Long title:** *Web Content Management Systems*
5. **Hours per week:** 2 Class 2 Lab 3 Credit
6. **Terms:** ☐ Fall ☐ Spring ☐ Summer ☒ On demand
7. **Initial term:** ☒ Fall ☐ Spring ☐ Summer Year: **2018**
8. **Catalog course description:** *(2-2-3) On demand. A study of current web content management systems. Emphasis will be on creation and implementation of website tools for updating websites for educational, organizational, and/or personal purposes.*

9. Course attributes:

General education component: ☐ NOT APPLICABLE _____

☐ Cultural diversity ☐ Honors ☐ Writing centered ☐ Writing intensive ☐ Writing active

10. Instructional delivery

Type of Course:

☐ Lecture ☐ Lab ☒ Lecture/lab combined ☐ Independent study/research
☐ Internship ☐ Performance ☐ Practicum/clinical ☐ Other, specify: _____

Mode(s) of Delivery:

☒ Face to Face ☒ Online ☐ Study Abroad

☒ Hybrid, specify approximate amount of on-line and face-to-face instruction *2-50 minute sessions online, 2- 50 minute sessions face-to-face per week*

11. Course(s) to be deleted from the catalog once this course is approved. *N/A*

12. Equivalent course(s): *None*

a. **Are students allowed to take equivalent course(s) for credit?** ☐ Yes ☐ No

13. Prerequisite(s): *CIT 4813 or permission of instructor*

a. **Can prerequisite be taken concurrently?** ☐ Yes ☒ No

b. **Minimum grade required for the prerequisite course(s)?** C

c. **Use Banner coding to enforce prerequisite course(s)?** ☒ Yes ☐ No

d. Who may waive prerequisite(s)?

☐ No one ☐ Chair ☒ Instructor ☐ Advisor ☐ Other (specify)

14. Co-requisite(s): ☐ NOT APPLICABLE _____

15. Enrollment restrictions

a. Degrees, colleges, majors, levels, classes which may take the course: *All*

b. Degrees, colleges, majors, levels, classes which may not take the course: *NONE*

16. Repeat status: ☒ May not be repeated ☐ May be repeated once with credit

17. Enter the limit, if any, on hours which may be applied to a major or minor: _____

18. Grading methods: ☒ Standard ☐ CR/NC ☐ Audit ☐ ABC/NC

19. Special grading provisions:

☐ Grade for course will not count in a student's grade point average.

☐ Grade for course will not count in hours toward graduation.

☐ Grade for course will be removed from GPA if student already has credit for or is registered in:

☐ Credit hours for course will be removed from student's hours toward graduation if student already has credit for or is registered in: _____

20. Additional costs to students:

Supplemental Materials or Software *None*

Course Fee ☒ No ☐ Yes, Explain if yes _____

21. Community college transfer:

☐ A community college course may be judged equivalent.

☒ A community college may not be judged equivalent.

Note: Upper division credit (3000+) will not be granted for a community college course, even if the content is judged to be equivalent.

Rationale, Justifications, and Assurances (Part I)

1. ____ Course is required for the major(s) of ____
____ Course is required for the minor(s) of ____
____ Course is required for the certificate program(s) of ____

X Course is used as an elective for **BS in Digital Media and MS in Technology**

2. **Rationale for proposal** : *Web development is a profession expected to grow by 22% each year until 2020 according to the Bureau of Labor Statistics. In Illinois alone this equates to several hundreds of jobs each year. According to a recent DACUM conducted at Lake Land College in Mattoon, IL, the courses currently offered in the AET area do not go into enough depth to adequately prepare students to be successful in web development. As a result, this course is being developed to support the proposed BS in Digital Media. Currently, there is no coursework that is flexible for students seeking knowledge in web and content management systems online or in a hybrid format.*

3. **Justifications for (answer N/A if not applicable)**

Similarity to other courses: *This course shares some similarity with MIS 4530. Topics of PHP and MySQL overlap with some discussion of backend (server side). The proposed course shares these topics, but this course focuses specifically on Content Management System tools such as Joomla, Drupal, Wordpress, and others. DGT 4823 uses a 2-2-3 lecture/lab combined structure as opposed to the a 3-0-3 format used in MIS 4530 to allow students a different type of offering in face-to-face, hybrid, and online delivery. The lecture/lab combined format further distances itself from MIS 4530 as the course will contain a number of lab activities designed to apply lecture-based activities to web development. Because this course utilizes an alternate pedagogical approach and lecture/lab structure, this course in web content management systems should not affect the programs of the School of Business.*

Prerequisites: *CIT 4813 is a needed prerequisite for student success. A background in the process of basic creation of websites is required so that students understand processes involved in creation of these projects and the time required to produce these projects. This course provides the foundation students need to be successful in the given course. Students that transfer in might also have foundational knowledge from other institutions. The instructor may review the student's portfolio of work and assess whether the student may be prepared for success in this course.*

Co-requisites: **N/A**

Enrollment restrictions: *The prerequisite rationale is listed above. Graduate students may also be allowed to enroll in the course. Students that will acquire Computer and Information Technology major or will acquire a Media Technology minor as undergraduates enroll in the MS in Technology. Other students that come into the MS in technology may have graphics production backgrounds from other academic majors. As these students complete their Master's degree they seek to take electives in the Digital Media area to complete their degree program. Without an open enrollment option for MS in Technology, students must either be manually enrolled in the course or seek other coursework.*

Writing active, intensive, centered: N/A

4. General education assurances (answer N/A if not applicable)

General education component: N/A

Curriculum: N/A

Instruction: N/A

Assessment: N/A

5. Online/Hybrid delivery justification & assurances (answer N/A if not applicable)

6. Online or hybrid delivery justification: *The online or hybrid delivery is a necessity to offer flexible options to our student population. The content of a gaming, animation, and simulation course requires little in the way of hardware and many of the needed software packages are free. The Internet connection speed for many users has increased thereby allowing for higher quality rich media instruction to be delivered. Finally, the course management tools that the university now uses allows there to be a richer interaction between students and faculty. Therefore, students at a remote location may benefit more from a course that is entirely online or hybridized.*

7. Instruction: *Instructional techniques may include flipped classroom strategies, peer learning, video based lecture, instructor based demonstration, and/or textbook tutorials. In flipped classroom instruction, the instructor will ask students to read on a particular topic and then complete a short assignment in advance of the material being presented. The students will also engage in a short discussion regarding the topics being presented. Certain elements of the course may require the students to teach one another a concept via video, screencast or podcasting. For these assignments, students will work in small groups to present each other material, work through the concepts, and complete assignments related to the topic. Video based lecture may be used to present certain topics from the instructor. In these videos, the instructor will introduce material, complete demonstrations, and show examples of material to be learned. To supplement the videos, the instructor will create tutorials on how to apply and utilize certain tools and techniques or ask students to complete textbook tutorials. Any*

instructors of technology-delivered courses/sections must provide proof of having the Online Course Development Institute (OCDI) training and certification.

8. **Integrity:** *Assignments and/or papers will require that students submit work to a dropbox in the course management system where it will be checked for plagiarism. Assignments will be designed to where students will also have to draw on experiences, case studies, and/or develop solutions to problems that would be difficult to replicate from classmates. Projects will be applied and design based. Therefore, the projects will rely upon the students developing and creating new designs of websites unique to a particular client or customer and therefore difficult to replicate. Presentations of work will require students to complete a screencast and/or computer based presentation where the student will present the results of their work to their classmates. Students involved in peer review of classmates projects and presentations will be required to give feedback via discussion boards or synchronous chat rooms. All assignments, papers, projects, presentations, and critiques will be assigned a rubric that students must review and adhere to. All rubrics will be given to students on the first day of class. Finally, exams and quizzes will be administered through the course management system. Exams and quizzes will validate that students have retained knowledge from all instructional activities.*
9. **Interaction:** *This course will rely upon email, discussion boards, chat rooms, and remote assistance tools. The instructor will frequently respond to emails to address any concerns that students might have and send out messages to remind students of important due dates and address any other issues students may have. Discussion boards will be used as areas to discuss the topics of the week asynchronously. Students will be required to complete discussions with the whole class and/or small groups. Forums may also be set up for students to share issues or work collaboratively to solve problems on lab assignments. Chat rooms will be encouraged for both instructor to student interaction as well as student to student interaction synchronously. In the chat room, students may ask questions, give answers, and share information. Remote assistance tools will be relied upon heavily for this course. Issues that students may be unable to solve on their own may require a digital helping hand. Remote assistance software will be used to demonstrate to students synchronously or help to solve issues.*

Model Syllabus (Part II)

Please include the following information:

1. Course number and title

DGT 4823, Web Content Management Systems

2. Catalog description

A study of current web content management systems. Emphasis will be on creation and implementation of website tools for updating websites for educational, organizational, and/or personal purposes.

3. Learning objectives.

1. Discuss advantages and limitations of various web content management systems. (WCR 1-7) (Grad 1-4)
2. Combine PHP and MySQL in creation of a simple web content management system. (CT 2, 3, 4) (Grad 1-2)
3. Setup and integrate various web content management tools on a web server. (CT 2, 3, 4) (Grad 1-2)
4. Test usability and troubleshoot web content management tools. (QR 2, 4) (Grad 2)
5. Publish and present finished website content management projects in a professional format to be critiqued by peers and professionals. (SL 1-7) (Grad 1-4)
6. Offer criticism and suggestions for improvement of website content management projects. (CT 1-6) (Grad 1-3)

4. Course materials.

- One USB Drive – Minimum of 16 GB
- Access to a computer and reliable internet connection
- Web Development software (Dreamweaver, Komodo Edit, or Brackets)
- Adobe Creative Cloud Software (Photoshop, Illustrator)

5. Weekly outline of content.

Face-to-face

Week	Day 1 (50 minutes) <i>Face-to-face</i>	Lab work (50 minutes) <i>Face-to-face</i>	Day 2 (50 minutes) <i>Face-to-face</i>	Lab work (50 minutes) <i>Face-to-face</i>
Week 1	What is Web Content Management?	Research on Web CMS	Setting up a local web server for testing	Setting up a local web server for testing exercises
Week 2	Introduction to PHP	Introduction to PHP exercises	Syntax and Variables	Syntax and Variables exercises
Week 3	Strings Constants and Operators	Strings Constants and Operators exercises	PHP Logic	PHP Logic exercises
Week 4	Loops and Functions	Loops and Functions exercises	Arrays	Arrays exercises
Week 5	What is a Database?	Database exercises	Creating Data in a MySQL Database	Creating Data in a MySQL Database exercises
Week 6	Inserting Data	Inserting Data exercises	Retrieving Data	Retrieving Data exercises
Week 7	Update Data	Update Data exercises	Handling Data	Handling Data exercises
Week 8	Forms	Form exercises	Midterm Exam	Midterm Exam
Week 9	Building a Simple CMS	Building a Simple CMS exercises	Building a Simple CMS	Building a Simple CMS exercises

Week 10	Wordpress	Wordpress exercises	Wordpress	Wordpress exercises
Week 11	Wordpress	Wordpress exercises	Wordpress	Wordpress exercises
Week 12	Drupal	Drupal exercises	Drupal	Drupal exercises
Week 13	Drupal	Drupal exercises	Drupal	Drupal exercises
Week 14	Joomla	Joomla exercises	Joomla	Joomla exercises
Week 15	Joomla	Joomla exercises	Joomla	Joomla exercises
Week 16	Final Exam			

Hybrid

Week	Day 1 (50 minutes) <i>Online</i>	Lab work (50 minutes) <i>Face-to-face</i>	Day 2 (50 minutes) <i>Online</i>	Lab work (50 minutes) <i>Face-to-face</i>
Week 1	What is Web Content Management?	Research on Web CMS	Setting up a local web server for testing	Setting up a local web server for testing exercises
Week 2	Introduction to PHP	Introduction to PHP exercises	Syntax and Variables	Syntax and Variables exercises
Week 3	Strings Constants and Operators	Strings Constants and Operators exercises	PHP Logic	PHP Logic exercises
Week 4	Loops and Functions	Loops and Functions exercises	Arrays	Arrays exercises
Week 5	What is a Database?	Database exercises	Creating Data in a MySQL Database	Creating Data in a MySQL Database exercises
Week 6	Inserting Data	Inserting Data exercises	Retrieving Data	Retrieving Data exercises
Week 7	Update Data	Update Data exercises	Handling Data	Handling Data exercises
Week 8	Forms	Form exercises	Midterm Exam	Midterm Exam
Week 9	Building a Simple CMS	Building a Simple CMS exercises	Building a Simple CMS	Building a Simple CMS exercises
Week 10	Wordpress	Wordpress exercises	Wordpress	Wordpress exercises
Week 11	Wordpress	Wordpress exercises	Wordpress	Wordpress exercises
Week 12	Drupal	Drupal exercises	Drupal	Drupal exercises
Week 13	Drupal	Drupal exercises	Drupal	Drupal exercises
Week 14	Joomla	Joomla exercises	Joomla	Joomla exercises
Week 15	Joomla	Joomla exercises	Joomla	Joomla exercises
Week 16	Final Exam			

Online

Week	Day 1 (50 minutes) <i>Online</i>	Lab work (50 minutes) <i>Online</i>	Day 2 (50 minutes) <i>Online</i>	Lab work (50 minutes) <i>Online</i>
Week 1	What is Web Content Management?	Research on Web CMS	Setting up a local web server for testing	Setting up a local web server for testing exercises
Week 2	Introduction to PHP	Introduction to PHP exercises	Syntax and Variables	Syntax and Variables exercises
Week 3	Strings Constants and Operators	Strings Constants and Operators exercises	PHP Logic	PHP Logic exercises
Week 4	Loops and Functions	Loops and Functions exercises	Arrays	Arrays exercises
Week 5	What is a Database?	Database exercises	Creating Data in a MySQL Database	Creating Data in a MySQL Database exercises
Week 6	Inserting Data	Inserting Data exercises	Retrieving Data	Retrieving Data exercises
Week 7	Update Data	Update Data exercises	Handling Data	Handling Data exercises
Week 8	Forms	Form exercises	Midterm Exam	Midterm Exam
Week 9	Building a Simple CMS	Building a Simple CMS exercises	Building a Simple CMS	Building a Simple CMS exercises
Week 10	Wordpress	Wordpress exercises	Wordpress	Wordpress exercises
Week 11	Wordpress	Wordpress exercises	Wordpress	Wordpress exercises
Week 12	Drupal	Drupal exercises	Drupal	Drupal exercises

Week 13	Drupal	Drupal exercises	Drupal	Drupal exercises
Week 14	Joomla	Joomla exercises	Joomla	Joomla exercises
Week 15	Joomla	Joomla exercises	Joomla	Joomla exercises
Week 16	Final Exam			

6. Assignments and evaluation, including weights for final course grade.

	Undergraduate	Graduate
Assignments	15%	10%
Discussions	15%	15%
Quizzes	15%	15%
Applied Projects	20%	20%
Exams	25%	20%
Papers	10%	10%
Research Paper	-----	10%
TOTAL	100%	100%

7. Grading scale.

A = 90 to 100 %, B = 80 to 89%, C = 70 to 79%, D = 60 to 69%, F < 60%

8. Correlation of learning objectives to assignments and evaluation.

Objective	Assignments Undergraduate: 15% Graduate: 10%	Discussions Undergraduate: 15% Graduate: 15%	Quizzes Undergraduate: 15% Graduate: 15%	Projects Undergraduate: 20% Graduate: 20%	Exams Undergraduate: 25% Graduate: 20%	Papers Undergraduate: 10% Graduate: 10% Research paper: 10%
1. Discuss advantages and limitations of various web content management systems. (WCR 1-7) (Grad 1-4)	X	X	X		X	X
2. Combine PHP and MySQL in creation of a simple web content management system. (CT 2, 3, 4) (Grad 1-2)	X	X		X		
3. Setup and integrate various web content	X			X		

management tools on a web server. (CT 2, 3, 4) (Grad 1-2)						
4. Test usability and troubleshoot web content management tools. (QR 2, 4) (Grad 2)	X		X	X	X	
5. Publish and present finished website content management projects in a professional format to be critiqued by peers and professionals. (SL 1-7) (Grad 1-4)	X		X		X	
6. Offer criticism and suggestions for improvement of website content management projects. (CT 1-6) (Grad 1-3)		X				X

Date approved by the department or school: 10/20/2016

Date approved by the college curriculum committee: 12/9/2016

Date approved by the Honors Council (*if this is an honors course*):

Date approved by CAA: 2/23/2017

CGS: