

Module specification

IMPORTANT NOTES – PLEASE READ THEM BEFORE COMPLETING THIS FORM

1. The module learning outcomes in section 7 should be mapped against the overall programme outcomes listed in the programme specification.
2. Learning outcomes in section 7 are grouped under four main headings (A/B/C/D). However, where a heading is not appropriate to a particular module, it would be reasonable to remove it from this form.
3. The number of learning outcomes should be sufficient to show the character of the module and differentiate it from other modules, and may vary according to content. Experience suggests that the fewer learning outcomes the better, and certainly no more than twelve per module.
4. The assessment strategy and methods in section 9 should cover the full range of intended learning outcomes.
5. Detailed guidance on credit level descriptors and on linking module learning outcomes to assessment and teaching strategy can be found in the SEEC website at <http://www.seec.org.uk/wp-content/uploads/2016/07/SEEC-descriptors-2016.pdf> and the QAA website <http://www.qaa.ac.uk/aboutus/glossary/pages/glossary-c.aspx>.
6. This form covers the minimum set of information required by the Open University but institutions may add other information for internal use if required.

1. Factual information			
Module title	COMPUTER SCIENCE 306 – Advanced Web Development		
Module tutor	Dr. Ampatzoglou Apostolos	Level	5
Module type	Taught	Credit value	15
Mode of delivery	100% face-to-face		
Notional learning hours	150; Notional value based on estimates of what it would take for a good student to achieve all learning outcomes		

2. Rationale for the module and its links with other modules

COMP SCI 306 builds upon the skills and knowledge about creating and publishing Web pages and sites taught in CS 206. It also introduces students to advanced web development areas, required for students interested in pursuing a career in web site design.

3. Aims of the module

This module aims mainly on client-side scripting using the programming language JavaScript. The objective will be to understand what scripting languages are and to be able to develop scripts. The module will also offer an introduction to jQuery library, Asynchronous JavaScript and XML (AJAX), basically showing the benefits of their use and applying it to certain programming tasks. In the last portion of the module, students will gain a practical knowledge on advanced issues of the mostly used web development language, namely PHP. By combining lectures with seminar discussions and extensive hands-on experiences the course will introduce the students both to the applied aspects of web application development technologies, but also to the theoretical issues involved.

4. Pre-requisite modules or specified entry requirements

CSC 206

5. Is the module compensatable?

N/A

6. Are there any PSRB requirements regarding the module?

N/A

7. Intended learning outcomes		
A. Knowledge and understanding	Programme Learning Outcome(s) this maps against	Learning and teaching strategy
<p><i>At the end of the module, learners will be expected to:</i></p> <p>A1 :Effectively incorporate JavaScript into web pages A2 :Find and use JavaScript and jQuery resources A3:Analyse the benefits of using AJAX in Web pages A4:Understand advanced Web design principles and technologies</p>	A1, A2, A3, A5	<ul style="list-style-type: none"> • Lectures will be used to introduce the topics and methods of approaching particular areas/subjects • Students will be required to engage in self-directed/self-motivated learning activities, such as supplementary reading of extra material solution of practice problems from the textbook and reference sources, in order to enhance their understanding of the topics discussed in classes • Summative Assessment will be used to test the ability of students to fulfil the expected learning outcomes • Formative Assessment will be used to assist the student in gaging their mastery of the concepts at regular interval during the module
B. Cognitive skills	Programme Learning Outcome(s) this maps against	Learning and teaching strategy
<p><i>At the end of the module learners will be expected to:</i></p> <p>B1 : Effectively incorporate JavaScript into web pages B2 : Incorporate AJAX techniques in a Web Site B3: Effectively use of jQuery library</p>	B1, B2, B3	<ul style="list-style-type: none"> • Lectures will be used to introduce the topics and methods of approaching particular areas/subjects • Students will be required to engage in self-directed/self-motivated learning activities, such

B. Cognitive skills	Programme Learning Outcome(s) this maps against	Learning and teaching strategy
<p>B4: Develop interactive content for Web pages using PHP</p>		<p>as supplementary reading of extra material solution of practice problems from the textbook and reference sources, in order to enhance their understanding of the topics discussed in classes</p> <ul style="list-style-type: none"> • Summative Assessment will be used to test the ability of students to fulfil the expected learning outcomes • Formative Assessment will be used to assist the student in gaging their mastery of the concepts at regular interval during the module

C. Practical and professional skills	Programme Learning Outcome(s) this maps against	Learning and teaching strategy
<p><i>At the end of the module, learners will be expected to:</i></p> <p>C1 : Effectively incorporate JavaScript into web pages C2 : Learn how to use jQuery to handle events and create animations C3: Extending capabilities of web sites by implementing jQuery C4:Incorporate AJAX techniques in a Web Site C5: Learn how to use advanced PHP features C6: Develop interactive content for Web pages</p>	<p>C3, C6</p>	<ul style="list-style-type: none"> • Lectures will be used to introduce the topics and methods of approaching particular areas/subjects • Students will be required to engage in self-directed/self-motivated learning activities, such as supplementary reading of extra material solution of practice problems from the textbook and reference sources, in order to enhance their understanding of the topics discussed in classes • Summative Assessment will be used to test the ability of students to fulfil the expected learning outcomes

C. Practical and professional skills	Programme Learning Outcome(s) this maps against	Learning and teaching strategy
		<ul style="list-style-type: none"> Formative Assessment will be used to assist the student in gaging their mastery of the concepts at regular interval during the module

D Key transferable skills	Programme Learning Outcome(s) this maps against	Learning and teaching strategy
<p><i>At the end of the module, learners will be expected to:</i></p> <p>D1 : Locate and use JavaScript resources</p> <p>D2 : Demonstrate understanding the benefits of using AJAX and jQuery in Web pages</p> <p>D3: Develop interactive content for Web pages using PHP</p>	D1, D2, D3, D5	<ul style="list-style-type: none"> Lectures will be used to introduce the topics and methods of approaching particular areas/subjects Students will be required to engage in self-directed/self-motivated learning activities, such as supplementary reading of extra material solution of practice problems from the textbook and reference sources, in order to enhance their understanding of the topics discussed in classes Summative Assessment will be used to test the ability of students to fulfil the expected learning outcomes

8. Indicative content.

JavaScript

- Advanced Techniques
- Detect visitor's Browser & Platform
- JavaScript Validation
- jQuery library
- jQuery UI & plugins

Asynchronous JavaScript and XML

- Basics
- Ajax Frameworks
- XML/CSS into Ajax Applications

Advanced PHP

- Object-Oriented PHP
- Design Patterns for the Web

9. Assessment strategy, assessment methods, their relative weightings and mapping to module learning outcomes				
Assessment Strategy:				
Assessment Task	Weighting	Week submitted	Grading (Pass / Fail / %)	Module Learning Outcome(s) the assessment task maps to
Midterm Exam: <i>There will be a midterm exam covering all material from the first half of this semester.</i>	30%	Mid semester	See Grading scales at the end of the module	See below
Final Project: <i>The final project will involve creating a front-end web site covering all material covered in class throughout the semester.</i>	40%	End of term		
Final Exam: <i>There will be a final exam covering all material from the entire course.</i>	30%	End of term		
<i>All summative assessment will be written by the teaching faculty, approved by an external examiner and common learning outcomes and marking criteria will be applied to all students regarding these assessments</i>				

9. Mapping of assessment tasks to learning outcomes																	
Assessment tasks	Learning outcomes																
	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	D1	D2	D3
Final Exam	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Final Project	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Midterm Exam	X	X	X		X	X	X		X	X	X	X			X	X	

10. Teaching staff associated with the module
Name and contact details

11. Key reading list				
Author	Year	Title	Publisher	Location
Jon Duckett	2014	JavaScript and JQuery: Interactive Front-End Web Development	Wiley; 1 edition (June 30, 2014)	Bissell Library and available at http://www.amazon.co.uk/
Any required material or notes will be available on-line, through in-class Hand-outs and from the bookstore of the College.				

12. Other indicative text (e.g. websites)
Additional material uploaded on MOODLE (http://moodle.act.edu/moodle/) You are responsible for login into the module Moodle website and view/download all material posted there, on a regular basis.

13. List of amendments since last (re)validation		
Area amended	Details	Date Central Quality informed

GRADING & ACADEMIC POLICIES
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ASSESSMENT DEADLINES
Students must submit work by the deadlines set in the module outline. Where coursework is submitted late and there are no accepted extenuating circumstances it will be penalised in line with the following tariff: Submission within 6 working days: a 10% reduction for each working day late down to the 40% pass mark and no further. Submission that is late by 7 or more working days is refused, mark of 0. Submission after the deadline will be assumed to be the next working day. Mitigating circumstances will be evaluated by the AS&PC
Assessment of non-degree students taking OU-validated courses (e.g., Study Abroad)
Same method of assessment, i.e. only “summative” assessments determine final grade. However, since those students are not pursuing an OU degree, they are not subject to resits or second marking, and final grade is calculated as the (weighted) average of all “summative” assessments, without requirement of passing all summative assessments to pass the course.
Revised Absence Policy – Effective Spring 2017
Maximum Allowed Number of Absences
The maximum allowed number of absences for all ACT courses stands at 6 (six) hours per course .
Excusing Absences
To excuse absences for good cause (such as medical reasons or personal crises), the student should contact the Registrar’s office and, ahead of time or at the latest within a week from the time the absences took place , provide written proof of the cause of the absences. The documents submitted are then evaluated by the Associate Dean for Administration and Student Affairs, who decides whether there are valid grounds for excusing the absences.
Successful Attendance
A student is considered to have successfully attended a course if he/she has attended 75% of the course lectures. Thus, the maximum number of absences (excused or not) stands at 11 hours per course . In case of an unsuccessful attendance, the student is administratively withdrawn from the course. The student has the right to appeal the decision to be administratively withdrawn from a course due to excessive absences and seek reinstatement. In this case, the student, within three working days , must fill in a ‘mitigating circumstances’ form in the Registrar’s office, where the reasons of the appeal should be explained. Following this, a formal hearing of the Academic Standards and Performance Committee (ASPC) takes place. The decision of the Committee is final.
ACADEMIC INTEGRITY

All academic divisions at ACT, both undergraduate and graduate, will apply the following policy on academic integrity and be included in the syllabus: “A student committing an act of Academic Dishonesty in a given course will receive an F (0 percentage points) in the assignment where the academic infraction took place. If a student commits an act of Academic Dishonesty for a second time in the same course, this student will receive a failing grade in that course”.

Special Accommodations

If you have specific physical, psychological, or any other learning disabilities that you believe may require accommodations for this module, you should visit the Dean’s office by bringing the appropriate documentation.

The Learning Hub (1st floor, Bissell Library) is staffed by experienced English faculty and you are encouraged to use its services.

GRADING SCALE

Grade Description	UK points	US Letter Grade	US point grade
Excellent	70+	A	4.0
Very Good (high)	65-69	A-	3.67
Very Good (low)	60-64	B+	3.33
Good (high)	55-59	B	3.0
Good (low)	50-54	B-	2.67
Satisfactory (high)	45-49	C+	2.33
Satisfactory (low)	40-44	C	2.0
Fail	0-39	F	0

