The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

Contact Person*: Henry Ledgard Phone: 460-4445 (xxx - xxxx) Email: henry.ledgard@utoledo.edu

Present	Proposed
Supply all information asked for in this column.(Supply core, research intensive and transfer module info if applicable)	Fill in appropriate blanks only where entry differs from first column.
College*: College of Engineering	**College**: College of Engineering
Dept/Academic Unit*: Electrical Engineering and Computer Science	**Dept/Academic Unit**: Electrical Engineering and Computer Science
Course Alpha/Numeric*: EECS - 5500	**Course Alpha/Numeric:** EECS - 5500
Course Title: Programming Language Paradigms	**Course Title:** Programming for the World Wide Web
Credit hours: Fixed: 3 or Variable: to	**Credit Hours:** Fixed: 3 or Variable: to
CrossListings: Insert To add a course, type in course ID and click the Insert button. To remove a course, select the course on left and click the Remove button. Remove	**CrossListings:** Insert To add a course, type in course ID and click the Insert button. To remove a course, select the course on left and click the Remove button. Remove
Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description): EECS 2510 and EECS 4100	**Prerequisite(s)**(if longer than 50 characters, please place it in Catalog Description):
Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):	**Corequisite(s)**(if longer than 50 characters, please place it in Catalog Description):

Catalog Description (*only if changed*) 75 words max:

Fundamental concepts of modern programming languages. Differences and similarities between procedural, functional, object-oriented and rule-based languages are examined as well as their impact on the programming process.

Catalog Description (*only if changed*) 75 words max:

Fundamental concepts and programming languages for constructing contempoary websites. Differences and similarities between procedural, object-oriented, and scripting languages. Topics include HTML, Javascript, CSS, XML, Ajax, PHP, ASP.net, Three.js, and related technologies, as well as their impact on the programming process.

Has course content changed? (•) Yes ( ) No

If course content is changed, give a brief topical outline of the revised course below(less than 200 words)

Instead of compiled languages for mainframe programming, the course will now focus on the languages used for the Internet and the World Wide Web.

Proposed effective term*: 201810 (e.g. 201140 for 2011 Fall)

File Type	View File
Attachment	View
Syllabus	View

List any course or courses to be deleted. Effective Date:

Effective Date:

Comments/Notes:

4.12.2017 I am enclosing the revised syllabus for my proposed Course Modification. It would be great if you could update the curriculum tracking system with this revised version.

Henry Ledgard

Rationale:

Approval:

Department Curriculum Authority:	Richard G. Molyet	Date 2017/03/23
Department Chairperson:	Mansoor Alam	Date 2017/03/23
College Curriculum Authority or Chair:	Efstratios Nikolaidis	Date 2017/03/31
College Dean:	Mohamed Samir Hefzy	Date 2017/04/17
Graduate Council:	Constance Schall, GC mtg 5/2/17	Date 2017/05/03
Dean of Graduate Studies:	Amanda C. Bryant-Friedrich	Date 2017/05/04
Office of the Provost :	marcia king-blandford	Date 2017/05/10

print

Administrative Use Only

Effective Date:	2016/08/22 (YYYY/MM/DD)
CIP Code:	
Subsidy Taxonomy:	

Program Code:	
Instructional Level:	

Registrar's Office Use Only

Processed in Banner on:	2017/05/16
Processed in Banner by:	Tasha Woodson
Banner Subject Code:	EECS
Banner Course Number:	5500
Banner Term Code:	201810
Banner Course Title:	Programming for the World Wide Web

Programming for the World Wide Web

The University of Toledo
Electrical Engineering and Computer Science
EECS 5500 (CRN **17291**)

Instructor: Dr. Henry Ledgard
Email: Henry.Ledgard@utoledo.edu

Office Hours:
Mon-Wed, 11:30-12:30 in PL 2700
Monday, 1:45-2:45 in PL 2700
Tuesday-Thursday, 1:15-2:00 in PL 3020
Tuesday-Thursday, 3:50-4:20 in PL 2600(the College Library).
Please feel free to arrange other times

Office Location: Nitschke Hall 2025
Phone: 419-460-4445

Term: Spring 2017
Class Location: Palmer Hall 2700
Class Day/Time: Mon-Wed 12:30 – 1:45 PM

Credit Hours: 3

COURSE/CATALOG DESCRIPTION

3 hours. Fundamental concepts and programming languages for constructing contempoary websites. Differences and similarities between procedural, object-oriented, and scripting languages. Topics include HTML, Javascript, CSS, XML, Ajax, PHP, frameworks, and related technologies, as well as their impact on the programming process. Prerequisite: none

STUDENT LEARNING OUTCOMES Upon successful completion of the course a student should be able to:

1. Know the difference beteen "Procedural Programming" , "Object-Oriented Programming", and "Web Programming"
2. Gain some knowledge of newly developed languages such as Three.js, Ruby, and Ajax.
3. Develop a view of what a "readable" program is.
4. Develp an appreciation for different software tools associated with Web pages.
5. Have a basic knowledge of HTML, Javascript, and PHP and their derivatives
6. Understand the use of Model-View-Controller for designing programs with graphical interfaces.
7. Understand the role of databases in writing programs and simplifying their usage

PREREQUISITES AND COREQUISITES

EECS 2510 and EECS 4100

REQUIRED TEXTS AND ANCILLARY MATERIALS

Textbook: Programming the World Wide Web, 8-th Edition, Robert W. Sebesta; ISBN-13: 9780133776041

TECHNOLOGY REQUIREMENTS

Our Class Web Page: http://www.eng.utoledo.edu/eecs/faculty_web/hledgard/plp/upload/
All material (lecture notes, assignments, exam coverage, etc.) required for the class is posted on this site. Students are responsible for checking this web page every Monday and Friday for announcements that pertain to the class.

UNIVERSITY POLICIES

Policy Statement on Non-Discrimination on the basis of Disability (ADA)

The University is an equal opportunity educational institution. Please read The University's Policy Statement on Nondiscrimination on the Basis of Disability Americans with Disability Act Compliance.)

Academic Accommodations

The University of Toledo is committed to providing equal access to education for all students. If you have a documented disability or you believe you have a disability and would like information regarding academic accommodations/adjustments in this course please contact the Student Disability Services Office.)

ACADEMIC POLICIES

Original Code Policy: All work turned in must be your own individual work. Students may bounce ideas off one another, but you must write your own code, solve your own homework problems, etc. You may share ideas at the conceptual level, but not your actual code for solving a particular problem. You may not use code from *any* source, including the internet, other than what you write from scratch. If more than 10 lines of code are identical to a program on the Internet or identical to the code of another student, a grade of 0 will be given for that assignment or project.

If an exception is warranted, the source of the original code must be documented in the code.

COURSE EXPECTATIONS

Submitted Material Policy All projects will require certain materials to be submitted. A student is responsible to see that the materials are submitted in the correct format and have all required materials and are submitted to the correct place. For example, a missing screenshot, an incomplete documentation of extra credit, or a program printed with a proportional font are each grounds for deductions.

GRADING

There will be 4-6 midterm exams, each of possibly different values. These will count for about 50% of the grade. There will also be a series of class projects. These will count for about 50% of the grade.

Students may volunteer or be asked to give presentations or otherwise contribute to the class. These will be graded and counted as extra credit.

The deadline for a project will be given when the project is posted. Note that a colleague can turn in one's assignment. Also note, incomplete assignments will certainly be given partial credit. For example, a project that has been written but does not yet run or does not run correctly will be given partial credit, perhaps even close to full credit depending on the code. After the due date, a project may be submitted late with a 20% penalty.

The conventional grading policy is used. That is, 90% or above is an A, 80-89% is a B, 70-79% is a C, and so forth.

is a D, and below that is an F.

Missed Exam Policy

A student who misses an exam will be given a default grade. The default grade will be 80% of the average of the other midterm grades for the student.

The only exception is documented illness, in which case the default grade will be the average of the other grades for the student. At most one exam can be missed.

COMMUNICATION GUIDELINES

N/A

STUDENT SUPPORT SERVICES

N/A

COURSE SCHEDULE

N/A

Dr. Henry F. Ledgard received his B.A. from Tufts University in 1964 and his Ph.D. from the Massachusetts Institute of Technology in 1969. He spent a year at the University of Oxford as a post-doctoral fellow. He was a faculty member at Johns Hopkins University, and subsequently was on the faculty at the University of Massachusetts/Amherst. In 1977, he became a member of the design team to create the new programming language ADA. From 1979 he conducted his own consulting and writing practice. In 1989 he joined the faculty at the University of Toledo. Among Dr. Ledgard's books are:

Ada: A First Introduction
Programming Language Landscape (by Michael Marcotty and Henry Ledgard)
Professional Software: Volume I: Software Engineering Concepts, (with John Tauer)
Professional Software Volume II: Programming Practice (with John Tauer)
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Two of his primary goals are to help people learn and to inspire quality work.

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