WINONA STATE UNIVERSITY
REQUIRED CHECKLIST FOR ALL CURRICULAR PROPOSALS

Course or Program ____________  CS-110

This checklist enables A2C2 representatives to endorse that their departments have accurately followed the Process for Accomplishing Curricular Change. For each course or program proposal submitted to A2C2, this checklist must be completed, signed by the submitting department's A2C2 representative, and included with the proposal when forwarded for approval. Peer review of proposals is also strongly advised, e.g., departments should discuss and vote on the proposals as submitted to A2C2, rather than on just the ideas proposed or drafts of proposals.

If a proposal fails to follow or complete any aspect of the process, the Course and Program Proposal Subcommittee will postpone consideration of the proposal and return it to the department's A2C2 representative for completion and resubmission. Resubmitted proposals have the same status as newly submitted proposals.

Note: This form need not be completed for notifications.

1. The appropriate forms and the “Approval Form” have been completed in full for this proposal. All necessary or relevant descriptions, rationales, and notifications have been provided.
   ___X____ Completed

2a. The “Financial and Staffing Data Sheet” has been completed and is enclosed in this proposal, if applicable.
   ___X____ Completed    ________ NA

2b. For departments that have claimed that “existing staff” would be teaching the course proposed, an explanation has been enclosed in this proposal as to how existing staff will do this, e.g., what enrollment limits can be accommodated by existing staff. If no such explanation is enclosed, the department's representative is prepared to address A2C2's questions on this matter.
   ___X____ Completed    ________ NA

3. Arrangements have been made so that a department representative knowledgeable of this proposal will be attending both the Course and Program Proposal Subcommittee meeting and the full A2C2 meeting at which this proposal is considered.
   ___X____ Completed
   Name and office phone number of proposal's representative: __Sudharsan Iyengar_____________________

4. Reasonable attempts have been made to notify and reach agreements with all university units affected by this proposal. Units still opposing a proposal must submit their objections in writing before or during the Course and Program Proposal Subcommittee meeting at which this proposal is considered.
   ________ Completed    ___X____ NA

5. The course name and number is listed for each prerequisite involved in this proposal.
   ________ Completed    ___X____ NA

6. In this proposal for a new or revised program (major, minor, concentration, etc.), the list of prerequisites provided includes all the prerequisites of any proposed prerequisites. All such prerequisites of prerequisites are included in the total credit hour calculations.
   ________ Completed    ___X____ NA

7. In this proposal for a new or revised program, the following information for each required or elective course is provided:
   a. The course name and number.
   b. A brief course description.
   c. A brief statement explaining why the program should include the course.
   ________ Completed    ___X____ NA

8. This course or program revision proposal:
   a. Clearly identifies each proposed change.
   b. Displays the current requirements next to the proposed new requirements, for clear, easy comparison.
   ________ Completed    ___X____ NA

9. This course proposal provides publication dates for all works listed as course textbooks or references using a standard form of citation. Accessibility of the cited publications for use in this proposed course has been confirmed.
   ___X____ Completed    ________ NA

______________________________    2/13/2012
Department's A2C2 Representative or Alternate    Date

[Revised 9-05]
WINONA STATE UNIVERSITY
PROPOSAL FOR GENERAL EDUCATION PROGRAM COURSES

Department __________________ Computer Science __________________________ Date __February 13 2012________

CS 110 ____________ Computers in a Global Society ____________ 3 __________
Course No. __________ Course Name ____________ Credits __________

Prerequisites __________

GEP Goal Area(s):*

CORE GOAL AREAS
___Goal 1: Communication
___Goal 3: Natural Science
___Goal 4: Mathematics/Logical Reasoning
___Goal 5: History and the Social and Behavioral Sciences
___Goal 6: The Humanities and Fine Arts

THEME GOAL AREAS
___Goal 7: Human Diversity
___Goal 8: Global Perspective
___Goal 9: Ethical and Civic Responsibility
___Goal 10: People and the Environment

* Courses may be submitted for up to two Goal Areas.

Additional Requirement Categories:

___Intensive:

_____ 1. Writing
_____ 2. Oral Communication
_____ 3. a. Mathematics/Statistics
      _____ b. Critical Analysis

_____ Physical Development and Wellness

Provide information as specified in the previous directions.

Attach a General Education Program Approval Form.

Department Contact Person for this Proposal:

_Sudharsan R Iyengar__________ x5539_________ sivengar@winona.edu___________
Name (please print) __________ Phone __________ e-mail address

[Revised 9-6-11]
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<th><strong>Department Approval</strong></th>
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<th><strong>Dean’s Recommendation</strong></th>
<th>Yes</th>
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<td>Dean of College</td>
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*If the dean does not approve the proposal, a written rationale shall be provided to the General Education Program Subcommittee.

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<th><strong>GEPS Recommendation</strong></th>
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<td>General Education Program Director</td>
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<th><strong>Decision of President</strong></th>
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Please forward to Registrar.

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<th>Registrar</th>
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<th>Please notify department chair via e-mail that curricular change has been recorded.</th>
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[Revised 7-13-11]
CS 110  Computers in a Global Society

Course Description: This course is designed to help students become informed users to succeed in the technologically connected global society. This non-technical introductory course covers fundamental knowledge of, and proper use of, the various types of computers and computer networks. The impact and significance of the information age is explored in the context of economic, political, cultural, legal, environmental, historical, ergonomic, and psychological topics.

The course emphasizes the risks to personal and organizational data and the security and privacy issues due to the extensive digitized information on networked computers. Discussion and illustrative format will be used to introduce topics such as: ethical use of computers, cyber security, privacy, civic responsibilities and cyber law, and intellectual property rights and piracy. These topics will be explored to develop scientific and philosophical perspectives at local and global level.

Prerequisites: None

Credits: 3 S.H.

MNTC Goal Area: 9: Ethical and Civic Responsibility

To develop students' capacity to identify, discuss, and reflect upon the ethical dimensions of political, social, and personal life and to understand the ways in which they can exercise responsible and productive citizenship. While there are diverse views of social justice or the common good in a pluralistic society, students should learn that responsible citizenship requires them to develop skills to understand their own and others' positions, be part of the free exchange of ideas, and function as public-minded citizens.

Students Learning Outcomes:

01) Examine, articulate, and apply their own ethical views
02) Understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.
03) Analyze and reflect on the ethical dimensions of legal, social, and scientific issues.
04) Recognize the diversity of political motivations and interests of others.
05) Identify ways to exercise the rights and responsibilities of citizenship.
Course Outline:

I. Advances in Computing
   a. Computers – Past and Present
   b. Computers - Basic components and configurations
   c. Advances in computer hardware and software
   d. Advances in computer networking and communications (05)

II. Social Implications of Computing
   a. News and Information proliferation (03)
   b. Electronic commerce and global competition (02)
   c. Telecommuting and Virtual Offices (05) (03)
   d. Education and Distance Learning (05) (03)
   e. Entertainment and Piracy (03)

III. Internet and World Wide Web – a Revolution
   a. History of the evolution of internet and WWW
   b. Information and Services on WWW (03)
   c. Effects of Information Technology around the world (04)

IV. Security and Privacy
   a. Basics of secure transactions on the internet
   b. Security risks for individuals and institutions (05)
   c. Privacy in the world of social networking (05)
   d. Protecting Personal and Institutional information (05) (03)

V. Intellectual Property Rights and Ethical Use of Computers
   a. Validating Information on the Internet (03)
   b. Using Information obtained online (03)
   c. Netiquette and ethical responsibility on the net (05) (03)

VI. Universal Accessibility
   a. Digital Divide – haves and have not’s (05) (04)
   b. Disabilities and information access (03)
   c. Effects of accessibility issues (03)
   d. Global and local digital divide and its effects (01) (04)

VII. Emerging Technologies
   a. New Technologies and their applications (01)
   b. New Technologies and their risks (01) (04)
   c. Personal health, ergonomics, addiction and netiquette (03)
   d. Social, Political, and Economic factors of new technologies (04)

VIII. Legal Issues
   a. Protecting vulnerable groups – seniors, teens and children(01) (03)
   b. Censorship versus freedom of information and speech (01) (03)
   c. Cyber Crime and prosecutorial jurisdiction (01) (03) (05)
   d. Cyber law and enforcement (03) (04) (05)
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<th>Learning Objective</th>
<th>Learning Opportunity</th>
<th>Assessment &amp; Evaluation</th>
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<tr>
<td>Examine, articulate, and apply their own ethical views</td>
<td>• Be aware and cognizant of the misinformation on the internet</td>
<td>• Classroom and online discussions on the proper communication on the internet</td>
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<td>• Anonymity on the internet and the need for a code of ethics and netiquette</td>
<td>• Current articles Plagiarism</td>
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<td>• Be aware and the nature of internet addiction</td>
<td>• Classroom discussion on cyber bullying and cyber stalking</td>
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<td>• Sustainability and the environmental impact of computers</td>
<td>• Expert Insight</td>
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<td>• Exams</td>
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<td>Understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.</td>
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<td>Analyze and reflect on the ethical dimensions of legal, social, and scientific issues.</td>
<td>• Study and understand the effect of pervasive use of computers</td>
<td>• Develop a report on the effects of digital divide and strategic initiatives undertaken by governments and institution to address these effects.</td>
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<td>• Discuss and understand the anonymity on the internet and the issues of piracy, electronic profiling, intellectual property rights, e-commerce, net neutrality, cyber security and privacy issues on the internet.</td>
<td>• Discuss and study the role of government and the issue of internet commerce, security, privacy, and universal access.</td>
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<td>• Discuss and understand the various perception of the concept of “Big-brother” and censorship</td>
<td>• Expert Insight</td>
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<td>• Exams</td>
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<td>Recognize the diversity of political motivations and interests of others.</td>
<td>Study broad issues such as</td>
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<td>• Distance Education</td>
<td>• Report on current and futuristic issues involving technology and develop cogent arguments for handling the same</td>
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<td>• Taxation and Internet Commerce</td>
<td>• Expert Insight</td>
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<td>• Cloud Computing</td>
<td>• Exams</td>
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<td>• Electronic Surveillance</td>
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<td>• Censorship</td>
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<td>Identify ways to exercise the rights and responsibilities of citizenship.</td>
<td>• Be able to understand the motivation, complexity, and nature of cyber crime</td>
<td>• Classroom discussion on current law pertaining to cyber crime</td>
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<td>• Know the different forms of computer virus and works</td>
<td>• Exercises on using common steps to avoid malware on computer network</td>
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<td>• Develop skills to combat and secure computers from computer virus and worms</td>
<td>• Expert Insight</td>
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<td>• Understand cyber warfare and the complexity in detecting and prosecuting cyber criminals</td>
<td>• Exams</td>
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CS-110: Computers in a Global Society

Course Description:

This course is designed to help students become informed users to succeed in the technologically connected global society. This non-technical introductory course covers fundamental knowledge of, and proper use of, the various types of computers and computer networks. The impact and significance of the information age is explored in the context of economic, political, cultural, legal, environmental, historical, ergonomic, and psychological topics.

The course emphasizes the risks to personal and organizational data and the security and privacy issues due to the extensive digitized information on networked computers. Discussion and illustrative format will be used to introduce topics such as: ethical use of computers, cyber security, privacy, civic responsibilities and cyber law, and intellectual property rights and piracy. These topics will be explored to develop scientific and philosophical perspectives at local and global level.

Satisfies USP Unity and Diversity/ Science and Social Policy requirement

Satisfies GEP Goal 10, People and the Environment”, for WSU only.

Objective:

To Understand and Appreciate Computer Technology And Its Effects in a Changing Global Society.


Office Hours: Link

Course Expectation and Outcome:

Upon entering the course – students should have:

☐ Curiosity and enthusiasm to learn
☐ Commitment to good work habits and time management
☐ Fundamental Analytical and Mathematical reasoning abilities

Upon completion of the course – student be able to:

  o Articulate the basic principles of computer systems and the general principles of internet communication
  o Describe the various types of computer technology and its uses in education, business, products, and government
  o Discuss and elaborate on the issues of technology in the global interconnected world
  o List and be cognizant of the security, privacy, and ethical issues that are essential in proper use of technology
Syllabus:

World of Computers
Hardware and Software
Report 1: Effect of Technology - Self Reflection
Internet and WWW
Network and Internet Security
Report 2 – Digital Divide
Computer Security and Privacy
Intellectual Property Rights and Ethics
Report 3 – Current and Future Societal Issues
Health, Access and Environment
Emerging Technologies
Finals Exam (Comprehensive)

Policy:

Projects and Homework should be done on an individual basis. Co-operative learning is encouraged. Collaboration in generating the submitted work will be construed as plagiarism and will be reported to the department.
You are responsible for all material assigned and discussed in class.
There will be no makeup exams - except, possibly, under dire circumstances and with prior instructor permission.
Questions regarding scores and grades should be brought to the attention of the instructor within one week of the grades/scores being turned back to the students. No appeals and inquiry will be entertained after this period.
Cheating and/or plagiarism will not be tolerated. It is important that you adhere to high ethical academic standards.
WSU is committed to Inclusive Excellence. WSU Promotes and celebrates diverse cultures, ethnic heritages, and includes all perspectives and promotes the understanding of issues relating to race, ethnicity, culture, gender, age, sexual orientation, ability levels, socioeconomic status, and religion. The complete statement with resources is at Inclusive Excellence Statement.

Grading:

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<td>Quiz 2</td>
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Grading Scale:

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