

**WEST VIRGINIA UNIVERSITY AT PARKERSBURG**  
**UNIFORM COURSE SYLLABUS**

**Name of Course** Systems Analysis and Design

**Course No.** CS 302

**Department** Computer Science

**Division** Technology

**I. Course Objectives**

1. Itemize and define the phases of a systems project.
2. Complete case studies involving the following:
  - a. investigation
  - b. analysis
  - c. design
  - d. documentation
  - e. implementation
  - f. evaluation
3. Perform as a member of a team and present ideas related to the systems analysis approach.
4. Have an understanding of new directions in systems analysis and design.

**II. Topics to be Studied**

1. Intro to Systems Analysis and Design
2. Systems Analysis Tools and Techniques
3. Overview of Systems Design
4. Design of Output
5. Design of Files
6. Design of Databases
7. Design of Input
8. Design of Procedures and Data Communications and Controls
9. Designing Structured Programs
10. System Implementation
11. New Directions in Systems Analysis and Design

**III. Special Projects to be Included in Course**

Students will conduct a systems study and will present their findings in oral and written form.

**V. Methods of Student Evaluation**

1. 3 Exams—short answer, problems, essay
2. Group and individual casework

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CS 302 (continued)

**V. Assessment of Outcomes**

95% of all students who complete the course will be able to work as a member of a team to analyze and design a computer system and to present the results in oral and written form.

**VI. Other Information**

None.

**Updated March 2004**