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| **ELEMENT** | **CONTENT** |
| DEPARTMENT | CIS |
| AUTHOR (S) | Craig Damon |
| COURSE NUMBER | **CIS 4120** |
| COURSE TITLE | **System Analysis & Design** |
| SHORT TITLE | Sys Analysis |
| COURSE LEVEL | 4000 |
| DATE CREATED | 4/14/2014 |
| CHECKED/CHANGED | 2/11/2017 |
| PREREQUISITES |  |
| COREQUISITES |  |
| RESTRICTIONS | Junior standing in a computer major |
| SPECIAL FEES | No |
| CREDITS | 3 |
| HOURS | 3 hours of lecture per week |
| SEMESTER | Spring |
| COURSE DESCRIPTION | This course develops the student’s skills to develop, refine, and communicate requirements and designs as related to computer systems. This course is reading- and writing-intensive. |
| SUGGESTED TEXTS |  |
| OPTIONAL TEXTS |  |
| COURSE OUTCOMES | The successful student will be able to:   1. Develop and document the requirements for a computer system 2. Critique and refine the requirements for a computer system 3. Develop and document an architectural design for a computer system 4. Develop and document a detailed low-level design for a computer system |
| COURSE CONTENT | 1. Performing system analyses to develop and write two requirements documents 2. Developing a high-level and low-level design for a computing system 3. Reviewing and discussing numerous example requirements and design documents 4. Informally presenting and discussing requirements and designs 5. Requirements analysis process 6. Requirements management tools and processes 7. Design processes 8. Designing for architectural scalability and performance monitoring |
| LAB/STUDIO OUTCOMES |  |
| LAB/STUDIO CONTENT |  |
| LECTURE CAPACITY | 32 |
| LAB CAPACITY |  |
| GRADED OR P/NP | Graded |
| EVALUATION | Participation, papers |
| DELIVERY METHOD | LEC |
| ROOM REQUIREMENTS |  |
| AUTHOR’S NOTES | Graduate-level cross-listed course is CIS 5120. Graduate students will read and write reactions to relevant research papers. |