|  |  |
| --- | --- |
| **ELEMENT** | **CONTENT** |
| DEPARTMENT | CIS |
| AUTHOR (S) | Craig Damon, C.J. Wang |
| COURSE NUMBER | **CIS 2260** |
| COURSE TITLE | **Object-Oriented Programming** |
| SHORT TITLE | Obj-Oriented Prog |
| COURSE LEVEL | 2000 |
| DATE CREATED | 5/1/2002 |
| CHECKED/CHANGED | 2/9/2017 |
| PREREQUISITES | C- or better in CIS 2262 or 2271 |
| COREQUISITES |  |
| RESTRICTIONS |  |
| SPECIAL FEES | No |
| CREDITS | 3 |
| HOURS | 3 hours of lecture per week |
| SEMESTER | Fall |
| COURSE DESCRIPTION | This course introduces the student to the use of strong specifications and abstract data types in object-oriented programming as well as the basics of object-oriented design. |
| SUGGESTED TEXTS | *Object-Oriented Design & Patterns*; Horstmann |
| OPTIONAL TEXTS |  |
| COURSE OUTCOMES | The successful student will be able to:   1. Understand the design principles involved in data abstraction and object-oriented designs 2. Develop simple object-oriented designs 3. Implement object-oriented designs in Java |
| COURSE CONTENT | 1. Course overview 2. Procedural abstractions 3. Exceptions 4. Data abstraction 5. Collections and iteration 6. Inheritance 7. Polymorphism 8. Generics 9. Design principles 10. UML 11. Design patterns 12. Other OOP languages |
| LAB/STUDIO OUTCOMES |  |
| LAB/STUDIO CONTENT |  |
| LECTURE CAPACITY | 32 |
| LAB CAPACITY |  |
| GRADED OR P/NP | Graded |
| EVALUATION | Assignments, exams |
| DELIVERY METHOD | LEC |
| ROOM REQUIREMENTS |  |
| AUTHOR’S NOTES |  |