ITMT-430  
System Integration Syllabus

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| Instructor Mr. Joseph Connor Phone 708-654-2049 Email [JConnor@iit.edu](mailto:JConnor@iit.edu) Office Hours Day: Monday & Wednesday Time 2:00-3:30 PM Location: Perlstein Hall Room 203  **Lecture**  Day: Tuesday & Thursday Time: 10:00 – 11:15 AM Location: Tech South 2030 Smart Lab | Course OverviewIn this capstone course, students will identify, gather, analyze, and write requirements based on user needs and will then design, construct, integrate, and implement an information system as a solution to a business problem. Students will document integration architecture, methodologies, and technologies using industry best practices. User needs and user centered design will be applied in the selection, creation, evaluation, and administration of the resulting system. The system design process will take into account professional, ethical, legal, security, and social issues and responsibilities and stress the local and global impact of computing on individuals, organizations, and society. Discussion will also cover the need to engage in continuing professional developmentCourse Materials  * Textbook: DevOps Handbook -How to Create World-Class Agility, Reliability, & Security in Technology Organizations   + Authors: Gene Kim, Patrick Debois, John Willis, and Jez Humble   + ISBN: 9781942788003   + Publisher: IT Revolution Press * Textbook: Accelerate: The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations   + Authors: Nicole Forsgren, Jez Humble, Gene Kim   + ISBN: 9781942788331   + Publisher: IT Revolution Press |

# Course Schedule

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| Week | Subject | Readings |
| Week 1 | The Three Ways | Chapter 1 |
| Week 2 | Where to Start | Chapter 2 |
| Week 3 | Technical Practices of Flow | Chapter 3 |
| Week 4 | Technical Practices of Feedback | Chapter 4 |

# Exam Schedule

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| Week | Subject Date |
| Week 4 | Chapter 1-3 February 4th |
| Week 8 | Chapter 4-6 March 12th |
| Week 14 | Chapter 7-10 April 2nd |
| Week 17 | Final Exam (Cumulative) May 5th |

# Assignment Schedule

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| Week | Name Date |
| Week 2 | Initial tooling setup January 29th |
| Week 5 | Student presentation February 20th |
| Week 10 | Sprint report March 15th |
| Week 16 | Final paper April 30th |

# Grading

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| --- | --- |
| Name | Percentage |
| Initial tooling setup | 10% |
| Attendance | 10% |
| Student Presentation | 10% |
| Final Exam | 20% |
| Sprint Reports (5) | 50% |

# Additional Information

**Attendance:** We need to take attendance in class and in the lab for this course. It is indicative of class outcome and performance. There are 30 course sections, each course attendance is worth 3 points

**Disabilities**: Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources and make an appointment to speak with me as soon as possible. My office hours are listed on the first page of the syllabus. The Center for Disability Resources (CDR) is located in 3424 S. State St., room 1C3-2 (on the first floor), telephone 312.567.5744 or disabilities@iit.edu.