Agenda

• Introductions
• About SJSU School of Information
• Overview of Informatics degree program
• What can you do with an MS in Informatics?
• Online Learning Experience
• Q & A
Introductions

• Where are you joining us from?

• Why Informatics? Specialization interest?

• How’d you hear about this program?
San Jose State University Campus
iSchool Programs

- Master of Science (MS) in Informatics
- Master of Library and Information Science (MLIS) / Teacher Librarian program
- Master of Archives and Records Administration (MARA)
- Big Data Certificate
- Advanced Certificate in Digital Assets and Services
- Post-Master’s Certificate in Library and Information Science
- Open Classes
- San José Gateway PhD Program
Social Networking
Informatics Work Environments

**Informatics is:** A collaborative activity that involves people, processes, and technologies to apply trusted data in a useful and understandable way.

- Implement web applications
- Understand network security
- Manage large-scale data sets
- Design effective human-computer interaction systems
- Manage projects
- Build and manage digital assets management systems
## Possible Informatics Careers

<table>
<thead>
<tr>
<th>Analyst Programmer</th>
<th>IT Manager</th>
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<tbody>
<tr>
<td>Business Analyst</td>
<td>Management Consultant</td>
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<tr>
<td>Clinical Data Analyst</td>
<td>Nursing Informatics Specialist</td>
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<tr>
<td>Computer &amp; Information Research Scientist</td>
<td>Online Marketing Analyst</td>
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<tr>
<td>Director of Clinical Informatics Research</td>
<td>Project Manager</td>
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<tr>
<td>E-Commerce Developer</td>
<td>Quality Assurance Lead</td>
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<tr>
<td>Health Informatics Director</td>
<td>Sports Data Analyst</td>
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<tr>
<td>Health Records Manager</td>
<td>User Experience Designer</td>
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<tr>
<td>Information Architect</td>
<td>User Experience Researcher</td>
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<tr>
<td>Interaction Developer</td>
<td>Web Application Developer</td>
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The Master of Science in Informatics degree program at the San José State University School of Information prepares graduate students for exciting careers focused on analyzing and managing data—and making that data secure and actionable for users within a specific field, such as health or sports.
Informatics Program Learning Outcomes

- A. Apply technology informatics skills to solve specific industry data and information management problems, with a focus on usability and designing for users;

- B. Evaluate, manage, and develop electronic records programs and applications in a specific organizational setting;

- C. Demonstrate strong understanding of security and ethics issues related to informatics, user interface, and inter-professional application of informatics in specific fields by designing and implementing appropriate information assurance and ethics and privacy solutions;

- D. Identify user needs, ideate informatics products and services, prototype new concepts, and evaluate a prototype’s usability;

- E. Work collaboratively in teams and use project management practices effectively to solve user-centric information and data problems;

- F. Conduct informatics analysis and visualization applied to different real-world fields, such as health science and sports.
Informatics Required Courses

**Required**
- INFM 200 – Informatics: Fundamentals
- INFM 201 – Informatics: Technology Foundations
- INFM 202 – Informatics: Security Overview
- INFM 203 – Big Data Analytics and Management
- INFM 204 – Human Centered Design
- INFM 205 – Informatics: Project Management
- INFM 206 – Electronic Records: Foundations
- INFM 207 – DAM: Digital Assets Managements
- INFM 208 – Information Security: Information Assurance

**Capstone**
- INFM 211 – Organizational Consulting Project
Informatics Specializations

- **Health Specialization Courses**
  - INFM 210 – Health Informatics
  - INFM 213 – Epidemiological Methods
  - INFM 214 – Health Data and Analytics

- **Cybersecurity and Privacy Specialization Courses**
  - INFM 215 – Network Security
  - INFM 216 – Computer/Digital Forensics
  - INFM 217 – Tools Lab
Concluding the Informatics Degree Program

- Capstone – Organizational Consulting Project

- Professional application
  - Current employer, identified partner, or an instructor scenario
  - Each student will partner with a client to identify a project, gather data, diagnose issues, and implement solutions
  - Culminating report and presentation for the MS in Informatics degree
Admission Requirements

- Bachelor’s degree with 2.8 GPA minimum or in the last 60 semester or 90 quarter units. Post-bachelor’s GPA must remain 2.8 or above.

- Applicants are required to demonstrate a strong technical foundation by having completed coursework and/or work experience with either 1) HTML5 and CSS, 2) a programming language, or 3) in information systems.
Application Period

- Currently Enrolling for Fall 2020 Semester
  - Deadline: June 1, 2020

- Apply online at
  - https://ischool.sjsu.edu/informatics-how-apply

- Application Tutorial
  - https://ischool.sjsu.edu/cal-state-apply-tutorial
Program Cost

- $525 per unit – 30 units in program
- Total program tuition cost: $15,750
Scholarships for New Students

- Director’s Scholarship for Excellence
  https://ischool.sjsu.edu/post/directors-scholarship-excellence

- Special Session Scholarships
  https://ischool.sjsu.edu/post/special-session-scholarships
  - Deadline: May 1, 2020 (earlier than Informatics program application deadline)
  - Must be admitted into the Informatics program to apply
Online Learning

- Benefits
  - Flexibility
  - Technology literacy and fluency
  - Improved student achievement
Online Learning

- Benefits

- Myths
  - Online classes are easier
  - Online classes require less time
Online Learning

- Benefits
- Myths

- Personal requirements for success
  - Self-discipline (time management, motivation)
  - Networking
Course Content Available in Canvas

- Lectures
- Assignments
- Projects

- Discussion Forums
- Activities
## Canvas Example

```
<table>
<thead>
<tr>
<th>Discussion Title</th>
<th>Sections</th>
<th>Last Post Time</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Questions &amp; Answers</td>
<td>All</td>
<td>Aug 13 at 9:58am</td>
<td>11:59pm</td>
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<tr>
<td>General Discussion Forum</td>
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<td>Aug 12 at 8:23pm</td>
<td>11:59pm</td>
</tr>
<tr>
<td>Student Introductions</td>
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<td>11:59pm</td>
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<td>Module 2 Discussion - Federal, State, and City Access, Freedom...</td>
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<td>Sep 25 at 11:59pm</td>
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<tr>
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<tr>
<td>Module 4 Discussion - Classification and Taxonomy</td>
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<td>Sep 8 at 11:59pm</td>
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<td>Module 5 Discussion - Access &amp; Privacy</td>
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<td>Sep 9 at 12am</td>
<td>Sep 15 at 11:59pm</td>
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Module 2 - Computing Concepts for Informatics

Module 2 Overview

Module 2 Discussion - Federal, State, and City Access, Freedom of Information, Privacy, Sunshine and Open Records Legislation
Aug 25 | 5 pts

Optional Readings

Website - ADP Payroll (Data System)

Website - Alfresco Content Services (Enterprise Content Management)

Website - Amazon S3 (Simple Storage Service)

Website - Box (Enterprise Content Management)

Website - Dropbox (Cloud File Repository)

Website - Epic Systems (Health - Enterprise Content Management)
## Getting Started

- Informatics Welcome Session, Technology Prep Course & Advising Site
- New Student Checklist

### MS in Informatics New Student Checklist - Spring 2020

Click on each task for more information. When a task has been completed, you can check it off. Your completed items will remain checked when you return to the form in the future (if you are using the same computer and browser and have not cleared your browser cookies). You may wish to bookmark this page.

<table>
<thead>
<tr>
<th>1. First Steps</th>
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<tbody>
<tr>
<td>A</td>
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<td>B</td>
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<tr>
<td>C</td>
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Required Courses — Informatics

21 Units

**INFM 200 Informatics: Fundamentals (meets GWAR requirement)**

A broad perspective and understanding of informatics as a technical skill set that focuses on user-centered systems and balances legal and ethical considerations and measures. Examines informatics applications in specific and inter-professional contexts. (3 units)

**INFM 201 Informatics: Technology Foundations**

Analyze and implement web applications using APIs, web frameworks and infrastructure-as-a-service to support web services and web resources. The course is hands on and moves at a fast pace. (2 units)

**INFM 202 Information Security: Overview**

Fundamentals of network security, compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. Students will be provided with an opportunity to gain hands-on experience using typical cybersecurity solutions. (1 unit)
Syllabi for All Courses

Find Course Syllabi By Semester & Year

This section contains course-related information on syllabi which show objectives, assignments, schedules, textbooks, and electronic course readings.

Also search by: Course or Instructor

Upcoming Semesters

- Fall 2020
- Summer 2020
- Spring 2020

Previous Semesters

- Fall 2019

INFM 200-10
Informatics Fundamentals
Spring 2020 Syllabus

Jason Kaltenbacher
E-mail
Office Hours: By appointment via telephone or online

Syllabus Links
Textbooks
CLOs
Program Learning Outcomes (PLOs)
Prerequisites

Resources
canvas Login and Tutorials
iSchool eBookstore

SJSU
San José State University
Thank You!

MS in Informatics Program Website

https://ischool.sjsu.edu/ms-informatics

Contact: Jason Kaltenbacher
MS in Informatics Program Coordinator
Jason.Kaltenbacher@sjsu.edu