School of Information

MS in Informatics
Online Open House

September 9, 2019
Welcome!

Dr. Sandra Hirsh
Director
School of Information

Dr. Linda Main
Associate Director
School of Information

Jason Kaltenbacher
MS in Informatics
Program Coordinator

Sheila Gurtu
Student Outreach Specialist
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
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 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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</thead>
<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>
</tr>
<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>
</tr>
<tr>
<td>Information Architect</td>
<td>User Experience Researcher</td>
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<tr>
<td>Interaction Developer</td>
<td>Web Application Developer</td>
</tr>
</tbody>
</table>
MS in Informatics Degree Program

- 30 units: 21 core units; 9 specialization units (100% online)
  - 9 core courses, 1-3 units each
  - 3 specialization courses, 3 units each
  - Capstone project, 3 units

- Specializations: Health, Cybersecurity & Privacy, and Sports

- 8-week accelerated sessions, 6 credits offered per session

- Completion as fast as 12-18 months

- Capstone Project

- Spring Application Deadline: December 1, 2019

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

- **Sports Specialization Courses**
  - KIN 279 – Sport Analytics
  - KIN 282 – Marketing and Social Aspects of Sport
  - KIN 264 – Sociology of Sport
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 Spring 2019 Semester**
  - Deadline: December 1, 2019

- **Apply online at**
  - [https://ischool.sjsu.edu/informatics-how-apply](https://ischool.sjsu.edu/informatics-how-apply)

- **Application Tutorial**
  - [https://ischool.sjsu.edu/cal-state-apply-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: November 1, 2019 (earlier than Informatics program application deadline)

  - Must be admitted into the Informatics program to apply
Online Learning

- Benefits
Online Learning

- Benefits
  - Flexibility
Online Learning

- Benefits
  - Flexibility
  - Technology literacy and fluency
Online Learning

- Benefits
  - Flexibility
  - Technology literacy and fluency
  - Improved student achievement
“… instruction conducted wholly online was more effective in improving student achievement than the purely face to face.”

Online Learning

- Benefits
- Myths
Online Learning

- Benefits

- Myths
  - Online classes are easier
Online Learning

- Benefits

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

- Benefits
- Myths
- Personal requirements for success
Online Learning

- Benefits

- Myths

- Personal requirements for success
  - Self-discipline (time management, motivation)
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

### Pinned Discussions

<table>
<thead>
<tr>
<th>Discussion</th>
<th>Latest Post Date</th>
<th>Due Date</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Questions &amp; Answers</td>
<td>Aug 13 at 9:58am</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Discussion Forum</td>
<td>Aug 12 at 8:23pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Introductions</td>
<td>Aug 13 at 9:50am</td>
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<td></td>
</tr>
<tr>
<td>Module 2 Discussion - Federal, State, and City Access, Freedom</td>
<td>Not available until Aug 19 at 12am</td>
<td>Aug 25 at 11:59pm</td>
<td></td>
</tr>
<tr>
<td>Module 3 Discussion - Physical and Electronic Storage</td>
<td>Not available until Aug 26 at 12am</td>
<td>Sep 1 at 11:59pm</td>
<td></td>
</tr>
<tr>
<td>Module 4 Discussion - Classification and Taxonomy</td>
<td>Not available until Sep 2 at 12am</td>
<td>Sep 8 at 11:59pm</td>
<td></td>
</tr>
<tr>
<td>Module 5 Discussion - Access &amp; Privacy</td>
<td>Not available until Sep 9 at 12am</td>
<td>Sep 15 at 11:59pm</td>
<td></td>
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[San José State University logo]
### 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
August 25 | 5 pts

#### Optional Readings

1. Website - ADP Payroll (Data System)
2. Website - Alfresco Content Services (Enterprise Content Management)
3. Website - Amazon S3 (Simple Storage Service)
4. Website - Box (Enterprise Content Management)
5. Website - Dropbox (Cloud File Repository)
6. 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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</thead>
<tbody>
<tr>
<td>A Prepare your school budget so you will have funds available for textbooks, tuition and technology. Financial Aid Resource Page</td>
</tr>
<tr>
<td>B Become familiar with the iSchool web site (<a href="https://ischool.sjsu.edu">https://ischool.sjsu.edu</a>). Specifically, review the MS in Informatics program website and the &quot;Student Resources&quot; sections as they contain a lot of information that you will need to know while you are enrolled.</td>
</tr>
<tr>
<td>C Update your home computing environment to meet the standards required by the school.</td>
</tr>
</tbody>
</table>
Course Descriptions

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 2019

Previous Semesters

• Summer 2019
• Spring 2019
• Fall 2018

INFM 200-10
Informatics Fundamentals
Fall 2019 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
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