SPSU: It was initially a branch campus of Georgia Tech, called, simply, The Technical Institute.

This Board of Regents has recognized the special-purpose mission of this institution, with our unique statewide focus on science, engineering, technology, and professional fields.

62% degrees offered at SPSU are unique within USG

The original curriculum was exclusively "technology."

About half of our graduates get a degree that has "engineering technology" in its title. A new "engineering" school will be created soon.

We also offer degrees in construction, computer science, information technology, software engineering, systems engineering, architecture, biology and physics, math, and technical communications.

Schools

- Architecture, Civil Engineering Technology, and Construction
- Arts and Sciences
- Computing and Software Engineering
- Engineering Technology and Management
At Southern Polytechnic State University
...entering first-year students consistently have the third highest SAT scores in the University System of Georgia...

after Georgia Tech and UGA.

Programs in the School
- BS & MS in Computer Science
- BS & MS in Software Engineering
- BS & MS in Information Technology
- BAS in IT
- BA in Computer Science
- Graduate Certificate Programs
  - Information Security
  - Business Continuity
  - IT Fundamentals
- 2+2 Programs with 2 Chinese Universities

Contrasting the Curricula

- National ranking in awarding bachelors degrees in engineering-related technologies:
  - #1 for African-American students
  - #4 for the number of students in ET
  - #5 for women
  - ASEE Profiles of Engineering & Engineering Technology Colleges, 2006
  - #5 in the U.S. for the number of international students at specialized and professional schools
  - #16 in the number of international students

Contrasting the Curricula

Course Enrollments by Departments
Enrollment by Majors (BS)

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<th>200608</th>
<th>200708</th>
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<tr>
<td>BSIT</td>
<td>196</td>
<td>213</td>
<td>220</td>
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<tr>
<td>BSSWE</td>
<td>88</td>
<td>106</td>
<td>113</td>
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<tr>
<td>Total BS</td>
<td>529</td>
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Enrollment by Majors (Graduate)

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<th>200508</th>
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</thead>
<tbody>
<tr>
<td>MSCS</td>
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<td>63</td>
<td>61</td>
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<tr>
<td>MSSWE</td>
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<tr>
<td>Total MS</td>
<td>180</td>
<td>198</td>
<td>188</td>
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</tbody>
</table>

Agenda

- Background Information about SPSU
- What We Want to Accomplish
- What We've Done So Far
- Specific Challenges / Issues
- Possible Threads at SPSU
- Next Steps to Implement for Spring Term
- Group Feedback

- Adapt Threads model to IT, CS, and SWE
- Investigate the impact of Threads on non-traditional students
- Increase enrollment and retention rate
- Establish a bridge between DTAE CIS curriculum and our Threads curriculum
- Establish the link between Threads and mandatory advising
  - Career advising
  - Intellectual growth
  - Leadership development
  - Social responsibility and productive lifestyles

- Raise awareness of Threads model among faculty
- Briefing administrators about Threads model
- December 10th, 2007: Seminar presentation and discussion about Threads
- Apply Threads ideas in curriculum revision
Overview of MSIT Curriculum Changes

- Replace 7 current core courses in IT, MIS and SwE with 4 IT core courses
- Develop concentrations of where students specialize in key areas of IT by completing 2 or 3 IT courses. Areas include:
  - Business continuity
  - Database technology
  - Enterprise computing
  - Information security
  - IT in the organization
  - Networking technology
  - Political & social factors
  - Potpourri of IT
  - R&D in IT (Thesis option)
  - Web systems

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Information Security

- Gaming
- Embedded Systems
- Scientific Computing
- Engineering Computing (Architecture, Construction, Mechatronics, ...)
- IT Management
Research and marketing
- Three colloquium presentations & discussions
- Threads & computing paradigms
- Threads & tracks/concentrations
- Threads & accreditations
- Threads & advising
- Bring Threads concepts and principles to higher administrators through SPSU “Academic Planning” process
- Integrate Threads-based curriculum revision in CSE school strategic planning

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Group Feedbacks
- Communication: Mailing list + Wiki Web
- Sharing Information: Centralized repository
- Computing Education
- What support Tech can provide when we have difficulties?

Thank You!