Undergraduate Program Activities

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Issues Under Consideration

• Evaluate current curriculum

• Degrees/specializations related to information security?
Common Core

CS 18000 - Problem Solving and Object-Oriented Programming
CS 18200 - Foundations of Computer Science
CS 24000 - Programming in C
CS 25000 - Computer Architecture
CS 25100 - Data Structures and Algorithms
CS 25200 - Systems Programming
Comments on Common Core

• Core consists of only freshman and sophomore level courses
• Core can be completed in 3-4 semesters
• Tracks can begin in 4th or 5th semester
• Core covers knowledge that all students must know (breadth)
• Tracks allow for selected depth in area(s) of most interest to each student
Tracks

• Computational Science and Engineering
• Computer Graphics and Visualization
• Database and Information Systems
• Foundations of Computer Science
• Machine Intelligence
• Programming Language
• Security
• Software Engineering
• Systems Programming
# Data Science Degree: Core

<table>
<thead>
<tr>
<th>Courses</th>
<th>Title</th>
<th>Credits</th>
<th>Semester</th>
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<td><strong>CS 18000</strong></td>
<td>Problem Solving and Object-Oriented Programming</td>
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<td><strong>CS 18200</strong></td>
<td>Foundations of Computer Science</td>
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<td><strong>CS 38003</strong></td>
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<td><strong>CS 24200</strong></td>
<td>Introduction to Data Science</td>
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<td><strong>STAT 35500</strong></td>
<td>Statistics for Data Science</td>
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<td><strong>CS 25100</strong></td>
<td>Data Structures &amp; Algorithms</td>
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<td><strong>STAT 41600</strong></td>
<td>Probability</td>
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<td><strong>CS 37300</strong></td>
<td>Data Mining and Machine Learning</td>
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<td><strong>STAT 41700</strong></td>
<td>Statistical Theory</td>
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<td><strong>CS 49000 LSDA</strong></td>
<td>Large Scale Data Analytics</td>
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Questions

• How are the tracks perceived in job interviewing?
• Any suggestions about the CS degree requirements?
Degree/Concentration for Security?

- Purdue Polytechnic Institute started a Cyber Security bachelor degree.
- Should we do more beyond a Security Track?