Overlapping and Course Sequencing List

*Please note: Course numbers and titles may change. If you notice such a change, please let the INI AAO know prior to enrolling in a course.*

**Overlapping Courses:**

The INI discourages students from enrolling in courses that have overlapping content to the extent that students will not receive credit toward degree requirements for redundant courses; however, every course taken will be factored into the student’s cumulative GPA. Specifically, the INI sets the following list of exclusions:

The following **security** courses are considered to be overlapping:

- 08-761 Information Security and Privacy
- 14-741 Introduction to Information Security
- 15-349 Introduction to Computer and Network Security
- 15-330/18-330 Introduction to Computer Security
- 18-730 Introduction to Computer Security
- 19-601 Information Warfare
- Or, any of their cross-listed versions

The following **security** courses are considered to be overlapping:

- 95-841 Information Assurance Policy
- Or, any of their cross-listed versions

The following **security** courses are considered to be overlapping:

- 18-739L Special Topics in Security
- 17-632 Engineering Run Time Malware Detection
- Or, any of their cross-listed versions

The following **security** courses are considered to be overlapping:

- 14-788 Information Security Policy and Management
- 14-784 Information Security Risk Management II
- 14-817 Cyber Risk Modeling
- Or, any of their cross-listed versions

The following **security** courses are considered to be overlapping:

- 14-817 Cyber Risk Modeling
- 14-782 Information Security Risk Management I
- Or, any of their cross-listed versions
The following **security** courses are considered to be overlapping:
- 14-742 Security in Networked Systems
- 18-731 Network Security
- Or, any of their cross-listed versions

The following **telecommunications** courses are considered to be overlapping:
- 14-740 Fundamentals of Telecommunications Networks
- 18-441/18-741 Computer Networks
- 15-641 Computer Networks
- Or, any of their cross-listed versions

The following **distributed systems** courses are considered to be overlapping:
- 15-640 Distributed Systems
- 18-749 Building Reliable Distributed Systems
- 14-736 Distributed Systems: Techniques, Infrastructure, and Services

The following **systems** courses are considered overlapping:
- 15-513 Introduction to Computer Systems
- 18-613 Foundations of Computer Systems
- 14-513 Introduction to Computer Systems

The following **management** courses are considered overlapping:
- 94-840 Lean Entrepreneurship
- 95-794 Tech Startup: Tools and Techniques
- Or, any of their cross-listed versions

The following **economics** courses are considered overlapping:
- 14-774 Managerial Economics
- 95-710 Economic Analysis
- 14-776 Fundamentals of Business and Management
- 17-646 Business for Engineers
- University of Hyogo Economic Analysis course
- Or, any of their cross-listed versions

The following **database management** courses are considered overlapping:
- 95-813 Intermediate Database Management
- 95-703 Database Management
- Or, any of their cross-listed versions

The following **database** courses are considered overlapping:
- 15-615 Database Applications
- 15-645 Database Systems
- Or, any of their cross-listed versions
The following **software project management** courses are considered to be overlapping:
- 17-639 Management of Software Development for Technology Executives
- 17-653 Managing Software Development
- Or, any of their cross-listed versions

The following **software architecture** courses are considered to be overlapping:
- 17-638 Systems Architecture for Managers
- 17-655 Architecture for Software Systems
- Or, any of their cross-listed versions

The following **software product** courses are considered to be overlapping:
- 49-750 Software Product Definition
- 49-752 Product Definition and Validation
- Or, any of their cross-listed versions

The following **software product** courses are considered to be overlapping:
- 49-751 Requirements Analysis
- 49-752 Product Definition and Validation
- Or, any of their cross-listed versions

The following **software management** courses are considered to be overlapping:
- 49-760 Foundations of Software Management
- 49-761 Elements of Software Management
- Or, any of their cross-listed versions

The following **machine learning** courses are considered to be overlapping:
- 10-601 Introduction to Machine Learning
- 10-701 Introduction to Machine Learning (PhD)
- 10-715 Advanced Introduction to Machine Learning (PhD)
- 18-661 Introduction to Machine Learning for Engineers
- Or, any of their cross-listed versions

The following **web development** courses are considered to be overlapping:
- 95-882 Enterprise Web Development
- 17-637 Web Application Development
- 17-682 JEE Web Application Development
- Or, any of their cross-listed versions

The following **cryptography** courses are considered to be overlapping:
- 18-733 Applied Cryptography
- 15-856 Introduction to Cryptography
- Or, any of their cross-listed versions
The above list is not exhaustive. It is the responsibility of the student to avoid taking courses with topics that overlap with any other courses on their schedule, or else risk losing credit for the redundant course(s). If a student has doubts over which courses are considered overlapping, the student should speak with their academic advisor.

**Course Sequencing:**

Students should not take an introductory level course after they have taken a more advanced course on a topic. This includes, but is not limited to the following:

- A student who has already taken **18-756 Packet Switching and Computer Networks** should not take the following courses after the fact:
  - 14-740 Fundamentals of Telecommunications and Computer Networks, or
  - 18-345 Introduction to Telecommunication Networks

- A student who has already taken **15-719: Advanced Cloud Computing** should not take the following courses after the fact:
  - 15-619: Cloud Computing
  - 14-848: Cloud Infrastructure and Services

- A student who has already taken **the following courses** should not take **11-663: Applied Machine Learning** after the fact:
  - 10-601: Introduction to Machine Learning
  - 10-701: Introduction to Machine Learning (PhD)
  - 10-715: Advanced Introduction to Machine Learning (PhD)
  - 18-661: Introduction to Machine Learning for Engineers

- A student who has already taken **17-700: Machine Learning and Data Science at Scale** should not take **10-601: Introduction to Machine Learning** in a following semester.

- A student who has already taken **18-732: Secure Software** should not **14-735: Secure Coding** in a following semester.

It is the students’ responsibility to ensure that they follow the appropriate course sequence. When in doubt, students should consult with their academic advisor.
### Version Table Overlapping List

*Notates dates course were added or removed from the Overlapping Courses List*

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<td>14-642 and 18-349 (starting S17 due to new cross list)</td>
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<td>01-23-17</td>
<td>Consolidated Security list</td>
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Version Table Course Sequencing
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