



<b>CSE 2001 3.0</b>	<b>Introduction to the Theory of Computation</b>
Required Text:	<u>Introduction to the Theory of Computation, 2nd Ed.</u> by Michael Sipser ISBN: 0-534-95097-3; Publisher: Thomson Course Technology
<b>CSE 2011 3.0</b>	<b>Fundamentals of Data Structures</b>
Required Text: Tamassia	<u>Data Structures and Algorithms in Java, 4th Ed.</u> by T. Goodrich and R. ISBN: 0-471-73884-0; Publisher: John Wiley & Sons 2006
<b>CSE 2021 4.0</b>	<b>Computer Organization</b>
Required Text:	<u>Computer Organization and Design, 3rd Ed.</u> by Hennessy & Patterson ISBN: 1-55860-604-1; Publisher: Elsevier (Morgan Kaufmann)
<b>CSE 2031 3.0</b>	<b>Software Tools</b>
Required Text:	<u>The C Programming Language, 2nd Ed.</u> by Brian Kernighan and Dennis Ritchie ISBN: 0-13-110362-8; Publisher: Prentice Hall
<b>CSE 3000 3.0</b>	<b>Professional Practice in Computing</b>
Required Text:	<u>A Gift of Fire: Social, Legal, and Ethical Issues for Computing and the Internet, 3rd Ed.</u> by Sarah Baase ISBN: 0136008488; Prentice Hall
<b>CSE 3101 3.0</b>	<b>Design and Analysis of Algorithms</b>
Required Text:	<u>How to Think about Algorithms, 1<sup>st</sup> Edition</u> by Jeff Edmonds Publisher: Cambridge House Press
<b>CSE 3121 3.0</b>	<b>Introduction to Numerical Computations I</b>
Required Text:	Course Kit
<b>CSE 3121 3.0</b>	<b>Introduction to Numerical Computations I</b>
Required Text:	Course Kit
<b>CSE 3201 4.0</b>	<b>Digital Logic Design</b>
Required Text:	<u>Digital Design, 4th Ed.</u> by M. Morris Mano and M. Ciletti ISBN: 0-13-198924-3; Publisher: Prentice Hall
<b>CSE 3213 3.0</b>	<b>Communication Networks</b>
Required Text:	<u>Communication Networks: Fundamentals Concepts and Key Architectures, 2nd Ed.</u> by Leon-Garcia & Indra Widjaja ISBN: 0-072-46352-X; Publisher: McGraw Hill
<b>CSE 3221 3.0</b>	<b>Operating System Fundamentals</b>
Required Text:	<u>Operating System Concepts, 8th Ed.</u> by Gagne, Galvin & Silberschatz ISBN: 0470128720; Publisher: John Wiley & Sons
<b>CSE 3301 3.0</b>	<b>Programming Language Fundamentals</b>
Required Text:	<u>Concepts of Programming Languages, 8th Ed.</u> by Robert W. Sebesta

<b>CSE 3311 3.0</b>	<b>Software Design</b>
Required Text:	<u>Object Oriented Software Design</u> by Bertrand Meyer ISBN: 0-13-629155-4; Publisher: Prentice Hall
Reference Text: Weedon	<u>Object Oriented Programming in Eiffel, 2nd Ed.</u> by Pete Thomas & Ray ISBN: 0-201-33131-4; Publisher: Addison Wesley
<b>CSE 3401 3.0</b>	<b>Functional and Logic Programming</b>
Required Text:	<u>Common LISPcraft</u> by Robert Wilensky Publisher: W.W. Norton & Company
Required Text:	<u>Programming in Prolog, 5<sup>th</sup> edition</u> by C.S. Melish and W.F. Clocksin Publisher: Springer Verlag
<b>CSE 3403 3.0</b>	<b>Platform Computing</b>
	<u>No Book is Required for this Course</u>
<b>CSE 3421 3.0</b>	<b>Introduction to Database Systems</b>
Required Text:	<u>Database Management Systems</u> by Raghu Ramakrishnan and Johannes Gehrke ISBN: 0-07-246563-8; Publisher: McGraw Hill
<b>CSE 3451 3.0</b>	<b>Signals and Systems</b>
Required Text:	<u>Continuous and Discrete Time Signals and Systems</u> by Mandal and Asif ISBN: 0521854555; Publisher: Cambridge University Press, 2007
<b>CSE 3461 3.0</b>	<b>User Interfaces</b>
Required Text:	Contact instructor at the start of classes
<b>CSE 4115 3.0</b>	<b>Computational Complexity</b>
Required Text:	<u>Computational Complexity: A Modern Approach</u> , by Arora and Barak Publisher: Cambridge University Press
<b>CSE 4201 3.0</b>	<b>Computer Architecture</b>
Required Text:	<u>Computer Architecture: A Quantitative Approach, 4th Ed.</u> by Hennessy and Patterson ISBN: 978-0-12-370490-0; Publisher: Morgan Kaufmann
<b>CSE 4214 3.0</b>	<b>Digital Communications</b>
Required Text:	<u>Digital Communications, 5<sup>th</sup> Ed.</u> by Proakis and Salehi Publisher: McGraw Hill
<b>CSE 4221 3.0</b>	<b>Operating System Design</b>
Required Text:	Contact instructor at the start of class
<b>CSE 4302 3.0</b>	<b>Compilers and Interpreters</b>
Required Text:	Contact Instructor at the start of class
<b>CSE 4312 3.0</b>	<b>Software Engineering Requirements</b>
Optional Text:	<u>Requirements Engineering: From System Goals to UML Models to</u>

Software Specifications, by Axel van Lamsweerde  
Publisher: Wiley

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**CSE 4401 3.0**

**Artificial Intelligence**

Required Text: Contact instructor at the start of class

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**CSE 4411 3.0**

**Database Management Systems**

Required Text: Database Management Systems by Raghu Ramakrishnan and Johannes Gehrke  
ISBN: 0-07-246563-8; Publisher: McGraw Hill

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**CSE 4413 3.0**

**Building E-Commerce Systems**

Required Text: Web Technologies: A Computer Science Perspective by Jackson  
ISBN: 9780131856035; Publisher: Prentice Hall

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**CSE 4422 3.0**

**Computer Vision**

Required Text: Introductory Techniques for 3-D Computer Vision by Emanuele Trucco  
and Alessandro Verri  
ISBN: 0-13-261108-2; Publisher: Prentice Hall

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**CSE 4471 3.0**

**Introduction to Virtual Reality**

Required Text: No Book Is Required for this Course

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**CSE 4482 3.0**

**Computer Security Management: Assessment and Forensics**

Required Text: Risks, Controls, and Security: Concepts and Applications, 1<sup>st</sup>Ed. by Rayal and  
Fichadia  
Publisher: Wiley