

## Computer Science Course Rotation Schedule

Course #	Course Title	Even Falls	Odd Springs	Odd Fall	Even Springs	Prerequisites
CPS 1010	Intro. to Computing at Kean	*	*	*	*	Transfer students only; 1 Credit; P/F
CPS 1231	Fundamentals of Comp. Sci.	*	*	*	*	Math 1000, Eng 1030
CPS 2231	Computer Org & Programming	*	*	*	*	CPS 1231
CPS 2232	Data Structures	*	*	*	*	CPS 2231, Math 2110
CPS 2240	IT Data Structures and Applied Prog.	*	*	*	*	CPS 2231 <b>for IT majors only;</b>
CPS 2310	Special Topics in Program. Lang.	*	*	*	*	Language varies; 1 credit
CPS 2390	Computer Org & Architecture	*	*	*	*	CPS 2231, Math 2110
CPS 3150	Advanced Programming Techniques	*	*	*	*	CPS 2232 <i>for CS &amp; CS/IS majors only</i>
CPS 3250	Operating Systems	*	*	*	*	CPS 2390 & CPS 2232
CPS 3310	Programming Languages	*	*	*	*	CPS 2232
CPS 3351	Information Systems Programming	*	*	*	*	CPS 2232
CPS 3410	App. Algorithms & Data Structures	*	*	*	*	CPS 2232
CPS 3411	Competitive Programming	TBA	TBA	TBA	TBA	CPS 3410; 1 Credit (ACM Contest), as needed
CPS 3440	Analysis of Algorithms	*	*	*	*	CPS 2232, Math 2110,
CPS 3498	Computer Security	*	*	*	*	CPS 2231, CPS Elective, IT required
CPS 3500	Web Programming	*	*	*	*	CPS 2232
CPS 3740	Database Management Systems	*	*	*	*	CPS 2232, Math 2110
CPS 3962	Object-Oriented Systems Analysis	*	*	*	*	CPS Core
CPS 4150	Computer Architecture	*	*	*	*	CPS Core
CPS 4200	Systems Programming	*	*	*	*	CPS Core
CPS 4222	Principles of Networking	*	*	*	*	CPS Core
CPS 4310	Software Engineering	*	*	*	*	CPS Elective
CPS 4410	Systems Simulation	*	*	*	*	CPS Elective, Math 2526
CPS 4501	Formal Lang. & Automata Theory	*	TBD	TBD	TBD	CPS Elective
CPS 4601	Human Computer Interaction	*	*	*	*	CPS Elective
CPS 4801	Artificial Intelligence	*	*	*	*	CPS Elective
CPS 488x	Independent Study	*	*	*	*	by arrangement, with faculty permission
CPS 4931	Distributed Systems Applications	*	*	*	*	CPS Core, CPS 3962, CS/IS required
CPS 4951	Senior Project	*	*	*	*	CPS Core, final semester
CPS 4961	Senior Research	*	*	*	*	by arrangement; 30 CPS hours comp.; faculty permission
CPS 498x	Special Topics	*	*	*	*	Topics vary, as needed; faculty permission

\* CPS Core refers to CPS 1231, 2231, 2232, 2390 and 3250.

Tech 2920	Computer Systems	*	*	*	*	CPS 1231
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Revised 03/17/14