

# CS Mounting Plan (Two Years)

(Note: Changes that affect core UG modules are highlighted in red)

The mounting plan for AY17/18 is indicative only and is subject to change.

Update: 28 June 2016

Code	Module Title	FINAL				TENTATIVE			
		AY2016/17				AY2017/18			
		Semester	Semester	Semester	Semester	Semester	Semester	Semester	Semester
		1	2	3	4	1	2	3	4
<b>BT5110</b>	Data Management and Warehousing	X				X			
<b>CG1001</b>	Introduction to Computer Engineering	X				X			
<b>CG2271</b>	Real-Time Operating Systems	X	X			X	X		
<b>CG3002</b>	Embedded Systems Design Project	X	X			X	X		
<b>CP2201</b>	Journey of the Innovator	X				X			
<b>CS1010</b>	Programming Methodology	X	X			X	X		
<b>CS1010E</b>	Programming Methodology (Engineering)	X	X			X	X		
<b>CS1010J</b>	Programming Methodology (IS)	X				X			
<b>CS1010S</b>	Programming Methodology (Science)	X	X			X	X		
<b>CS1010X</b>	Programming Methodology		X				X		
<b>CS1020</b>	Data Structures and Algorithms I	X	X		X	X	X		X
<b>CS1020E</b>	Data Structures and Algorithms I (Engineering)	X	X			X	X		
<b>CS1101S</b>	Programming Methodology	X				X			
<b>CS1231</b>	Discrete Structures	X	X			X	X		
<b>CS2010</b>	Data Structures and Algorithms II	X	X		X	X	X		X
<b>CS2020</b>	Data Structures and Algorithms Accelerated		X				X		
<b>CS2100</b>	Computer Organisation	X	X			X	X		
<b>CS2101</b>	Effective Communication for Computing Professionals	X	X			X	X		
<b>CS2102</b>	Database Systems	X	X			X	X		
<b>CS2103</b>	Software Engineering	X	X			X	X		
<b>CS2103T</b>	Software Engineering	X	X			X	X		
<b>CS2104</b>	Programming Language Concepts	X				X			
<b>CS2105</b>	Introduction to Computer Networks	X	X			X	X		
<b>CS2106</b>	Introduction to Operating Systems	X	X			X	X		
<b>CS2107</b>	Introduction to Information Security	X	X			X	X		
<b>CS2108</b>	Introduction to Media Computing	X				X			
<b>CS2220</b>	Introduction to Computational Biology	X				X			
<b>CS2309</b>	CS Research Methodology	X				X			
<b>CS3103</b>	Computer Networks Practice	X				X			
<b>CS3201</b>	Software Engineering Project I	X	X			X	X		
<b>CS3202</b>	Software Engineering Project II	X	X			X	X		
<b>CS3210</b>	Parallel Computing	X				X			
<b>CS3211</b>	Parallel and Concurrent Programming		X				X		
<b>CS3216</b>	Software Development on Evolving Platforms	X				X			
<b>CS3217</b>	Software Engineering on Modern Application Platforms		X				X		
<b>CS3218</b>	Multimodal Processing in Mobile Platforms		X				X		
<b>CS3219</b>	Software Engineering Principles and Patterns	X				X			
<b>CS3223</b>	Database Systems Implementation		X				X		
<b>CS3225</b>	Combinatorial Methods in Bioinformatics		X				X		
<b>CS3226</b>	Web Programming and Applications		X				X		
<b>CS3230</b>	Design and Analysis of Algorithms	X	X			X	X		
<b>CS3233</b>	Competitive Programming		X				X		
<b>CS3234</b>	Logic and Formal Systems		X				X		
<b>CS3235</b>	Computer Security	X	X			X	X		

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<b>CS3236</b> Introduction to Information Theory	X			X	
<b>CS3240</b> Interaction Design	X			X	
<b>CS3241</b> Computer Graphics	X	X		X	X
<b>CS3242</b> 3D Modelling and Animation	X			X	
<b>CS3243</b> Introduction to Artificial Intelligence	X			X	
<b>CS3244</b> Machine Learning	X			X	
<b>CS3245</b> Information Retrieval	X			X	
<b>CS3247</b> Game Development	X			X	
<b>CS3249</b> User Interface Development	X			X	
<b>CS3281</b> Thematic Systems Project I	X			X	
<b>CS3282</b> Thematic Systems Project II	X			X	
<b>CS3283</b> Media Technology Project I	X				
<b>CS3284</b> Media Technology Project II	X				
<b>CS3343</b> Digital Media Production					
<b>CS4211</b> Formal Methods for Software Engineering				X	
<b>CS4212</b> Compiler Design	X			X	
<b>CS4215</b> Programming Language Implementation	X			X	
<b>CS4218</b> Software Testing	X			X	
<b>CS4220</b> Knowledge Discovery Methods in Bioinformatics	X			X	
<b>CS4221</b> Database Design and Tuning	X			X	
<b>CS4222</b> Wireless Networking	X			X	
<b>CS4223</b> Multi-core Architecture	X			X	
<b>CS4224</b> Distributed Databases	X			X	
<b>CS4225</b> Massive Data Processing Techniques in Data Science	X			X	
<b>CS4226</b> Internet Architecture	X			X	
<b>CS4231</b> Parallel and Distributed Algorithms	X			X	
<b>CS4232</b> Theory of Computation	X			X	
<b>CS4234</b> Optimisation Algorithms	X			X	
<b>CS4236</b> Cryptography Theory and Practice	X			X	
<b>CS4238</b> Computer Security Practice	X			X	
<b>CS4239</b> Software Security	X			X	
<b>CS4242</b> Social Media Analysis	X			X	
<b>CS4243</b> Computer Vision and Pattern Recognition	X			X	
<b>CS4244</b> Knowledge-Based Systems	X			X	
<b>CS4246</b> AI Planning and Decision Making	X			X	
<b>CS4247</b> Graphics Rendering Techniques	X			X	
<b>CS4248</b> Natural Language Processing	X			X	
<b>CS4249</b> Phenomena and Theories of Human-Computer Interaction	X			X	
<b>CS4345</b> General-Purpose Computation on GPU	X			X	
<b>CS4347</b> Sound and Music Computing	X			X	
<b>CS4350</b> Game Development Project	X			X	
<b>CS5214</b> Design of Optimising Compilers				X	
<b>CS5215</b> Constraint Processing				X	
<b>CS5218</b> Principles of Program Analysis	X			X	
<b>CS5219</b> Automated Software Validation	X			X	
<b>CS5222</b> Advanced Computer Architecture					
<b>CS5223</b> Distributed Systems	X			X	
<b>CS5224</b> Cloud Computing	X			X	
<b>CS5226</b> Database Tuning					
<b>CS5228</b> Knowledge Discovery and Data Mining	X			X	

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<b>CS5229</b> Advanced Computer Networks	X			X		
<b>CS5230</b> Computational Complexity					X	
<b>CS5231</b> Systems Security	X			X		
<b>CS5232</b> Formal Specification & Design Techniques		X			X	
<b>CS5233</b> Simulation and Modelling Techniques		X			X	
<b>CS5234</b> Combinatorial and Graph Algorithms	X			X		
<b>CS5236</b> Advanced Automata Theory	X					
<b>CS5237</b> Computational Geometry and Applications						
<b>CS5238</b> Advanced Combinatorial Methods in Bioinformatics	X					
<b>CS5239</b> Computer System Performance Analysis	X			X		
<b>CS5240</b> Theoretical Foundation of Multimedia	X			X		
<b>CS5246</b> Text Processing on the Web						
<b>CS5248</b> Systems Support for Continuous Media				X		
<b>CS5250</b> Advanced Operating Systems		X			X	
<b>CS5272</b> Embedded Software Design						
<b>CS5321</b> Network Security		X			X	
<b>CS5330</b> Randomized Algorithms		X			X	
<b>CS5331</b> Web Security		X			X	
<b>CS5340</b> Uncertainty Modelling in AI	X			X		
<b>CS5342</b> Multimedia Computing and Applications						
<b>CS5343</b> Advanced Computer Animation						
<b>CS5344</b> Big-Data Analytics Technology		X			X	
<b>CS5345</b> Social and Digital Media Analytics						
<b>CS6101</b> Exploration of Computer Science Research	X	X		X	X	
<b>CS6202</b> Advanced Topics in Programming Languages					X	
<b>CS6203</b> Advanced Topics in Database Systems	X			X		
<b>CS6204</b> Advanced Topics in Networking					X	
<b>CS6205</b> Advanced Modelling & Simulation						
<b>CS6206</b> Advanced Topics in HCI						
<b>CS6208</b> Advanced Topics in Artificial Intelligence		X				
<b>CS6209</b> Topics in Cryptography						
<b>CS6210</b> The Art of Computer Science Research		X			X	
<b>CS6212</b> Topics in Media						
<b>CS6213</b> Special Topics in Distributed Computing					X	
<b>CS6220</b> Advanced Topics in Data Mining		X			X	
<b>CS6222</b> Topics in Computational Biology					X	
<b>CS6230</b> Topics in Information Security					X	
<b>CS6231</b> Topics in Systems Security	X					
<b>CS6234</b> Advanced Algorithms		X			X	
<b>CS6240</b> Multimedia Analysis		X				
<b>CS6241</b> Advanced Topics in Computer Graphics					X	
<b>CS6242</b> Digital Libraries						
<b>CS6243</b> Computational Photography						
<b>CS6244</b> Robot Motion Planning and Control						
<b>CS6270</b> Virtual Machines						
<b>CS6280</b> Topics in Computer Science I	X					
<b>CS6281</b> Topics in Computer Science II						
<b>CS6282</b> Topics in Computer Science III						
<b>CS6880</b> Advanced Topics in Software Engineering	X					
<b>FMC1206</b> Freshman Seminar: Computing for a Better World	X			X		

