

IPSE UG Students Enrolled in Fall 2010 through 2017

Summary Table of Changes in IPSE Group C Courses Offered by Dept. of Civil and Environmental Engineering, School of Creative Sci. & Eng.

For Fall 2020 course registration periods

* You need to earn credits of Group C courses provided as "required", "elective required" or "elective" for your enrollment year. Please refer to column [A], [B], [C] or [D] here below **according to your enrollment year**. Also check the relevant pages of your enrollment year's Handbook.

[A] Carriculum for Students Enrolled in Fall 2010	[B] Carriculum for Students Enrolled in Fall 2011	[C] Carriculum for Students Enrolled in Fall 2012/ 2013	[D] Carriculum for Students Enrolled in Fall 2014/ 2015/ 2016/2017	Number of credits	Number of class hours per week (* a 90-minute long class (per week) is shown as 2 (hours) in the table below)								Current Course Availability by Your Enrollment Year				Note	
					First year		Second year		Third year		Fourth year		O: available X: not available *: conditionally available (see Note section)					
					Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	For students enrolled in 2010	For students enrolled in 2011	For students enrolled in 2012/ 2013	For students enrolled in 2014/ 2015/ 2016/2017		
Graduation Thesis A > Graduation Thesis or Project A	Graduation Thesis A > Graduation Thesis or Project A	Graduation Thesis A > Graduation Thesis or Project A	Graduation Thesis or Project A	3								⊙		O (required)	O (required)	O (required)	O (required)	* course name changed from fall 2013. * "Graduation Thesis or Project A" is regarded as one course.
Graduation Thesis B > Graduation Thesis or Project B	Graduation Thesis B > Graduation Thesis or Project B	Graduation Thesis B > Graduation Thesis or Project B	Graduation Thesis or Project B	3									⊙	O (required)	O (required)	O (required)	O (required)	* course name changed from spring 2014. * "Graduation Thesis or Project B" is regarded as one course.
-	Introduction to Computer Science	-	-	2	2	2								X	*	X	X	* originally allocated to fall semester of 1st year, but from spring 2013, CHANGED TO spring semester of 1st year. * Another class available from fall 2014; allocated to 1st year. * for fall semester 2015, there is only one class available. * for students enrolled in fall 2012, fall 2013, fall 2014 & fall 2015, this course replaced "Introduction to Computer Science (spring, 1st year)" classified as a Group B Required course from fall 2012.
-	Modeling	-	-	2		2								X	X	X	X	* course cancelled from spring 2014
-	-	-	Structural Mechanics	2		4 (first-half)								O (elective required)	O (elective required)	O (elective required)	O (required)	* new course available from spring semester in 2014; allocated to 1st year. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation) * this course is changed to spring quarter in 1st year from 2019.
Soil Mechanics	Soil Mechanics	Soil Mechanics	Soil Mechanics	2			2							O (elective required)	O (elective required)	O (elective required)	O (required)	* for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
Hydraulics A	Hydraulics A	Hydraulics A	Hydraulics A	2			2							O (elective required)	O (elective required)	O (elective required)	O (required)	* for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
-	-	Environmental Engineering A	Environmental Engineering A	2			2							O (elective required)	O (elective required)	O (elective required)	O (required)	* new course available from fall semester in 2012; allocated to 2nd year. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
-	Fundamentals of Urban Studies and Planning A	Fundamentals of Urban Studies and Planning A	Fundamentals of Urban Studies and Planning A	2			2							O (elective required)	O (elective required)	O (elective required)	O (required)	* originally allocated to fall semester for 3rd year, BUT CHANGED TO fall semester for 2nd year from fall 2012. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)

[A]	[B]	[C]	[D]	Number of credits	Number of class hours per week (* a 90-minute long class (per week) is shown as 2 (hours) in the table below)								Current Course Availability by Your Enrollment Year				Note	
Curriculum for Students Enrolled in Fall 2010	Curriculum for Students Enrolled in Fall 2011	Curriculum for Students Enrolled in Fall 2012/ 2013	Curriculum for Students Enrolled in Fall 2014/ 2015/ 2016/2017		First year		Second year		Third year		Fourth year		O: available X: not available *: conditionally available (see Note section)					
					Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	For students enrolled in 2010	For students enrolled in 2011	For students enrolled in 2012/ 2013	For students enrolled in 2014/ 2015/ 2016/2017		
-	-	Concrete Engineering	Concrete Engineering	2					2					O (elective required)	O (elective required)	O (elective required)	O (required)	* new course available from fall semester in 2012; allocated to 3rd year. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
-	Laboratory Work on Structures	Laboratory Work on Structures	Laboratory Work on Structures	1					4					O (elective required)	O (elective required)	O (elective required)	O (required)	* new course available from fall semester in 2012; allocated to 3rd year. * number of class hours per week changed from fall 2012. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
-	Laboratory Work on Concrete	Laboratory Work on Concrete	Laboratory Work on Concrete	1						4				O (elective required)	O (elective required)	O (elective required)	O (required)	* new course available from Spring semester in 2013; allocated to 3rd year. * number of class hours per week changed from spring 2013. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
-	Laboratory Work on Hydraulics and Water Quality	Laboratory Work on Hydraulics and Water Quality	Laboratory Work on Hydraulics and Water Quality	1						4				O (elective required)	O (elective required)	O (elective required)	O (required)	* new course available from Spring semester in 2013; allocated to 3rd year. * number of class hours per week changed from spring 2013. * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Required course (to be counted towards graduation)
Introduction to Water Engineering	Introduction to Water Engineering	-	-	2	2									X	X	X	X	* course cancelled from fall 2010
Civil and Environmental Engineering A	Civil and Environmental Engineering A	Civil and Environmental Engineering A	Civil and Environmental Engineering A	2		2								O (elective required)	O (elective required)	O (elective required)	O (elective required)	* course cancelled from fall 2019.
-	-	Surveying	Surveying	2		2								O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2012; allocated to 1st year.
-	-	Surveying Practice	Surveying Practice	1		4								O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2012; allocated to 1st year.
Materials and Structures A	Materials and Structures A	Materials and Structures A	Materials and Structures A	2			2							O (elective required)	O (elective required)	O (elective required)	O (elective required)	
Civil and Environmental Engineering B	Civil and Environmental Engineering B	Civil and Environmental Engineering B	Civil and Environmental Engineering B	2			2							O (elective required)	O (elective required)	O (elective required)	O (elective required)	
-	-	Spatial Information and Intelligent System in Construction	Spatial Information and Intelligent System in Construction	2			2							O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from fall semester in 2012; allocated to 2nd year.
Applied Mathematics for Engineers > Applied Mathematics for Civil and Environmental Engineers	Applied Mathematics for Engineers > Applied Mathematics for Civil and Environmental Engineers	Applied Mathematics for Engineers > Applied Mathematics for Civil and Environmental Engineers	Applied Mathematics for Civil and Environmental Engineers	2			2							O (elective required)	O (elective required)	O (elective required)	O (elective required)	* course name changed from spring 2014.
-	-	Spatial Information Practice	Spatial Information Practice	1			4							O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from fall semester in 2012; allocated to 2nd year.

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					First year		Second year		Third year		Fourth year		O: available X: not available *: conditionally available (see Note section)				
					Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	For students enrolled in 2010	For students enrolled in 2011	For students enrolled in 2012/ 2013	For students enrolled in 2014/ 2015/ 2016/2017	
Geotechnical Engineering	Geotechnical Engineering	Geotechnical Engineering	Geotechnical Engineering	2				2					O (elective required)	O (elective required)	O (elective required)	O (elective required)	
Hydraulics B	Hydraulics B	Hydraulics B	Hydraulics B	2				2					O (elective required)	O (elective required)	O (elective required)	O (elective required)	
Materials and Structures B	Materials and Structures B	Materials and Structures B	Materials and Structures B	2				2					O (elective required)	O (elective required)	O (elective required)	O (elective required)	
Fundamentals of Urban Studies and Planning B	Fundamentals of Urban Studies and Planning B	Fundamentals of Urban Studies and Planning B	Fundamentals of Urban Studies and Planning B	2				2					O (elective required)	O (elective required)	O (elective required)	O (elective required)	* originally allocated to spring semester for 3rd year, BUT CHANGED TO spring semester for 2nd year.
-	-	Environmental Engineering B	Environmental Engineering B	2				2					O (elective required)	O (elective required)	O (elective required)	O (elective required)	* this course has become unavailable for spring semester, 2014.
-	-	Structure Design Practice	Structure Design Practice	1				2					O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2012; allocated to 2nd year.
-	-	-	Civil and Environmental Engineering Laboratory	1				4					O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2017; allocated to 2nd year.
-	-	Steel Material and Structure	Steel Material and Structure	2						2			O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from fall semester in 2012; allocated to 3rd year. * originally allocated to spring semester for 2nd year, BUT CHANGED TO fall semester for 3rd year. * originally allocated to fall semester for 3rd year, BUT CHANGED TO spring semester for 3rd year.
-	-	-	Coastal and Port Engineering	1					2 (first-half)				O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from fall semester in 2014; allocated to 3rd year. * originally allocated to spring semester for 3rd year, BUT CHANGED TO first-half of fall semester for 3rd year.
-	-	Computer Aided Design (CAD)	Computer Aided Design (CAD)	2						2			O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from Spring semester in 2013; allocated to 3rd year.
-	-	-	Bridge Engineering	2						2			O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2014; allocated to 3rd year.
-	-	-	International Development and Planning	2						2			O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2014; allocated to 3rd year.
-	-	-	Environmental Geotechnics	2						2			O (elective required)	O (elective required)	O (elective required)	O (elective required)	* new course available from spring semester in 2014; allocated to 3rd year.
-	-	Advanced Topics in Civil Engineering C	Advanced Topics in Civil Engineering C > Energy Geotechnics	1							2 (Intensive)		O (elective)	O (elective)	O (elective)	O (elective required)	* new course available from fall 2014 as an intensive course; allocated to 4th year * number of credit is "1" * for students enrolled in fall 2014 & fall 2015, the credit to be earned from this course will be classified as a Group C Elective Required course (to be counted towards graduation) * course name changed from 2019

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					Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	Fall sem.	Spring sem.	For students enrolled in 2010	For students enrolled in 2011	For students enrolled in 2012/ 2013	For students enrolled in 2014/ 2015/ 2016/2017	
Mechanical Design > Material Mechanics for Mechanical Design A	Mechanical Design > Material Mechanics for Mechanical Design A	Mechanical Design > Material Mechanics for Mechanical Design A	Mechanical Design > Material Mechanics for Mechanical Design A	2			2						O (elective)	O (elective)	O (elective)	O (elective)	* course name changed from fall 2016 * those who have already earned the credit of Mechanical Design A cannot take Material Mechanics for Mechanical Design A.
Fundamentals of Robotics A	Fundamentals of Robotics A	Fundamentals of Robotics A	Fundamentals of Robotics A	2			2						O (elective)	O (elective)	O (elective)	O (elective)	
Environmental Science A	Environmental Science A	Environmental Science A	Environmental Science A	2			2						O (elective)	O (elective)	O (elective)	O (elective)	
E-business, Technology, and Legal Affairs > Advanced Topics in Intellectual Property Rights, Technology and Legal Affairs	E-business, Technology, and Legal Affairs > Advanced Topics in Intellectual Property Rights, Technology and Legal Affairs	E-business, Technology, and Legal Affairs > Advanced Topics in Intellectual Property Rights, Technology and Legal Affairs	E-business, Technology, and Legal Affairs > Advanced Topics in Intellectual Property Rights, Technology and Legal Affairs	2			2	2					O (elective)	O (elective)	O (elective)	O (elective)	* course name changed from spring 2016. * those who have already earned the credit of E-business, Technology, and Legal Affairs cannot take Advanced Topics in Intellectual Property Rights, Technology and Legal Affairs. CHANGED TO spring semester of 2nd year. * this course is changed to fall semester of 2nd year from 2019.
Environmental Impact Assessment and Technology for Environment A	Environmental Impact Assessment and Technology for Environment A	Environmental Impact Assessment and Technology for Environment A	-	2			2						X	X	X	X	* course cancelled from fall 2012.
Environmental Management A > Environmental Management	Environmental Management A > Environmental Management	Environmental Management A > Environmental Management	-	2			2						X	X	X	X	* course name changed (deleting "A") from fall 2011. * course cancelled from fall 2012.
Resources Processing and Recycling > Resources Recycling > Advanced Topics on Resources Recycling	Resources Processing and Recycling > Resources Recycling > Advanced Topics on Resources Recycling	Resources Processing and Recycling > Resources Recycling > Advanced Topics on Resources Recycling	Resources Processing and Recycling > Resources Recycling > Advanced Topics on Resources Recycling	2					2				O (elective)	O (elective)	O (elective)	O (elective)	* course name changed from fall 2015. * course name changed from spring 2016. * those who have already earned the credit of Resources Processing and Recycling or Resources Recycling cannot take Advanced Topics on Resources Recycling.
Earth and Environmental Science	Earth and Environmental Science	Earth and Environmental Science	Earth and Environmental Science	2					2				O (elective)	O (elective)	O (elective)	O (elective)	* Course cancelled.
Building Environment	Building Environment	Building Environment	-	2					2				X	X	X	X	* course cancelled from fall 2014.
Project Management	Project Management	Project Management	-	2						2			X	X	X	X	* course cancelled from fall 2014.