

GEP Information Technology Major Requirements (rev 4-7-15)

Degree Requirements: 40 courses comprised of A) GEP Signature Core, B) GEP Variable courses, C) Major Requirements, D) GEP Integrative Learning Courses, E) free electives, and F) Overlays

A. GEP Signature Core Courses (6 Courses) All non-transfer students must take these 6 Courses at SJU.	Semester completed
1. PHL 154 – Moral Foundations	
2. THE 154 – Faith, Justice & the Catholic Tradition	
3. ENG 102 – Texts and Contexts (pre-req: ENG 101)	
4. HIS 154 – Forging the Modern World	
5. First Year Seminar	
6. Faith and Reason Course (pre-reqs: PHL 154 and THE 154) **See note on page 3 on the Faith/Reason requirements for the Classes of 2014-15	

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B. Variable Course (Maximum 9 courses)	Course(s) required/taken Please note students may earn AP credit and/or use transfer credits to meet these requirements.	Semester Completed	
Fine Arts or Literature	One course in Art, MTF or approved Literature course		
Mathematics (Beauty)	Math 155 or MAT 161 required. A score of 4 or 5 on the Calculus AB or BC AP exam fulfills this requirement.		
Natural Science	One course - any lab-based natural science course intended for science majors		
Non-Native Language	1-2 courses based on your placement level; AP credit may be given. Please Note: only one course is required if placed at the 301 level (or higher). If placed lower than 301, two courses are required.	1	2
Social/Behavioral Science	One course		
Philosophy (Philosophical Anthropology)	One course		
Theology (Religious Difference)	One course - cannot be used to satisfy the diversity/ globalization/non-Western area studies degree requirement		
Writing	ENG 101 Craft of Language or 4 or a 5 on the English Language & Composition AP test.		

C. GEP Integrative Learning Courses for Computer Science (3 courses)	Semester Completed
1. ILC1: ECN 101 or MAT 156 or MAT 162	
2. ILC2: ECN 101 or ECN 102	
3. ILC3: any course in CAS	

GEP Information Technology Major – Degree Requirements, cont'd

D. Information Technology Major Requirements	Semester completed
1. CSC 120 Computer Science I	
2. CSC 121 Computer Science II	
3. CSC 240 Discrete Structures I	
4. CSC 241 Discrete Structures II	
5. CSC 201 Data Structures	
6. CSC 202 Computer Architecture	
7. CSC 310 Computer Systems	
8. CSC 315 Software Engineering	
9. CSC 351 Database Systems	
10. CSC 353 Internet Application Development	
11. CSC 354 Web Technologies	
12. CSC 495 Computer Science Project	
13. ACC 101 Financial Accounting	
14. ACC 102 Managerial Accounting	
15. Any ACC, CSC, DSS, ECN, or FIN elective (1 of 2) chosen with approval of advisor	
16. Any ACC, CSC, DSS, ECN, or FIN elective (2 of 2) chosen with approval of advisor	

E. Free Electives	
Note that the number of free electives may vary depending on AP credits earned, number of courses required for the non-native language requirement, and number of math/sciences courses completed for the major (see note above in major requirements)	
Free Elective or Overlay (1 of 3)	
Free Elective or Overlay (2 of 3)	
Free Elective or Overlay (3 of 3)	
Free elective (1 of 3)	
Free elective (2 of 3)	
Free elective (3 of 3)	

F. Overlays (3 overlays that may be combined with other requirements above, unless otherwise noted) **See note below regarding the requirements for the Classes 2014 - 2016	
Writing-Intensive	
Ethics-Intensive (pre-req: PHL 154)	
Diversity/ Globalization/non-Western	

Students must complete: (1) one course certified in diversity, globalization, or non-Western studies, (2) one ethics-intensive course, and (3) one writing-intensive course. These may be combined with other requirements, unless otherwise noted. Below are specific guidelines for each class with regard to overlay requirements and the Faith & Reason signature core course:

Class of 2014:

Of the four GEP requirements, Faith & Reason and the three overlay requirements, students in the class of 2014 need to satisfy two of the four requirements. With respect to these four components of the GEP, this means that students in the class of 2014 are required to complete (1) a Faith and Reason course and one overlay requirement OR (2) two overlay requirements.

Class of 2015:

Of the four GEP requirements, Faith & Reason and the three overlay requirements, students in the class of 2015 are required to complete three of the four. Students in the class of 2015 are required to complete (1) a Faith and Reason course and two overlay requirements OR (2) all three overlay requirements.

Class of 2016:

Students in the Class of 2016 must complete the GEP Faith & Reason course requirement and two of the three overlays.

Class of 2017, 2018

Students in the Classes of 2017 & 2018 are required to complete all four GEP requirements: Faith & Reason and the 3 overlays.

Below is listed the typical curriculum for a GEP information technology major, presuming that the student enters as a freshman, without needing special background courses (such as Pre-calculus) or with advanced placement in mathematics or computer science.

Year/Semester	Fall	Spring
First-Year	CSC 120 Computer Science I ECN 101 (ILC1) or MAT 155/161 (Beauty) ENG 101 HIS 154 or First Year Seminar Non-Native Language I	CSC 121 Computer Science II MAT 155/161 (Beauty) or MAT 156/162 (ILC1) ENG 102 HIS 154 or First Year Seminar Non-Native Language II
Sophomore	CSC 201 Data Structures CSC 240 Discrete Structures I ACC 101 Financial Accounting ECN 101 or ECN 102 (ILC2) PHL 154	CSC 241: Discrete Structures II ACC 102 Managerial Accounting Social/Behavioral Science THE 154 Art/Literature
Junior	CSC 202: Computer Architecture CSC 351: Database Systems Lab Science I Philosophy (Philosophical Anthropology) Free Elective or Overlay	CSC 310: Computing Systems CSC 354: Web Technologies Theology (Religious Difference) Free Elective or Overlay Free Elective or Overlay
Senior	CSC 315: Software Engineering CSC 353: Internet Application Development ACC, CSC, DSS, ECN or FIN elective Faith & Reason Free Elective	CSC 495: Computer Science Project Any course in CAS (ILC3) ACC, CSC, DSS, ECN or FIN elective Free Elective Free Elective