# Study Abroad Course Advising Guide for the School of Engineering & Applied Science
Use **program search engine** to find detailed program information and apply.

**The list of courses below is meant to be used as a guide.** *These courses may be offered.* Refer to specific program details or the actual course list for for the most up to date course details.

*Majors should meet with the Study Abroad staff and Academic Advisor your freshman year as you should plan to study abroad spring semester of your sophomore year.*

| Program | Type/Term | GU Course # | GU Course Title |
|---|---|---|---|
| Gonzaga in Florence | GU Spring semester | ENSC 301 | Mechanics of Materials |
| Gonzaga in Florence | GU Spring semester | ENSC 306 | Dynamics |
| Gonzaga in Florence | GU Spring semester | ENSC 352 | Fluid Mechanics |
| Gonzaga in Florence | GU Spring semester | MATH 260 | Ordinary Differential Equations |
| Gonzaga in Florence | GU Spring semester | MATH 321 | Statistics for Experimentalists |

| SOME OF THESE COURSES MAY NOT BE OFFERED AND OTHER COURSES COULD BE AVAILABLE. CHECK THE HOST COURSE CATALOG TO CONFIRM. | | | | | | |
|---|---|---|---|---|---|---|
| Program/Host | Host Course Number | Host Course Name | GU Course Number | GU Course Name | CORE Requirements OR COMMENTS | Requires Signature |
| Akita University | MAT 245 | Poetry of Programming | CPSC 310 | Special Topics | | YES |
| DIS Denmark | | Game Development | CPSC 213 | Special Topics | | YES |
| DIS Denmark | | Game Development Lab | CPSC 214 | Special Topics | | YES |
| Queen Mary University | ECS 403U | Communications and Networks | CPSC 447 | Data Communications | | YES |
| Queen Mary University | ECS 405U | Arts Application Programming | CPSC 211 | Algorithm Art | | YES |
| Queen Mary University | ECS 417U | Fundamentals of Web Tech | CPSC 213 | Computer Science Elective | | YES |
| Queen Mary University | ECS 522U | Graphical User Interface | CPSC 310 | Special Topics | | YES |
| Queen Mary University | ECS 529U | Algorithms and Data Structures | CPSC 223/ CPSC 122 | Algorithm/ Abstract Data Structures | | YES |
| Sophia University | INF 337 | Communication and Network Engineering | CPSC 447 | Computer Network | | YES |
| St. Louis University | CSCI 2100 | Data Structures | CPSC 223 | Data Structures | | YES |
| St. Louis University | CSCI 2300 | Object-Oriented Software Design | CPSC 224 | Object Oriented and Event Driven Programming | | YES |
| St. Louis University | CSCI 2400 | Computer Architecture | CPSC 260 | Computer Organization | | YES |

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|---|---|---|---|---|---|---|
| St. Louis University | CSCI 3100 | Algorithms | CPSC 450 | Design and Analysis- Comp Algorithms | | YES |
| St. Louis University | CSCI 3200 | Programming Languages | CPSC 326 | Organization of Programming Language | | YES |
| St. Louis University | CSCI 3500 | Operating Systems | CPSC 346 | Operating Systems | | YES |
| St. Louis University | CSCI 3710 | Data Bases | CPSC 321 | Data Base Management systems | | YES |
| St. Louis University | ECE 2101 | Electric Circuits 1 | EENG 201 | Circuit Analysis | | YES |
| St. Louis University | ECE 2102/3 (Spring) | Electric Circuits 2 and Lab | EENG 202 + L | Circuit Analysis II | | YES |
| St. Louis University | ECE 2205 | Digital Design and Lab | CPEN 203/L | Intro to Digital Logic/Lab | | YES |
| St. Louis University | ECE 3217 (Spring) | Computer Architecture and Organization | CPEN 231/L | Microcomputer Architecture and Assembly Programming | | YES |
| St. Louis University | ESCI 2150 (Spring) | Dynamics | ENSC 306 | Dynamics | | YES |
| St. Louis University | ESCI 2300 | Thermodynamics | ENSC 244 | Thermodynamics | | YES |
| St. Louis University | ESCI 3100 | Mechanics of Solids | ENSC 301 | Mechanics of Materials | | YES |
| St. Louis University | ESCI 3200 | Fluid Dynamics | ENSC 352 | Fluid Dynamics | | YES |
| St. Louis University | MATH 2530 | Calculus 3 | MATH 259 | Calculus 3 | | YES |
| St. Louis University | MATH 3270 | Adv Mathematics for Engineers | ENSC 371 | Advanced Engr Math | | YES |
| University of Auckland | CIVIL 211 | Structures and Design 1 | CENG 301 | Structural Analysis | | YES |
| University of Auckland | CIVIL 221 | Geomechanics 1 | CENG 331/331L | Soil Mechanics (and lab) | | YES |
| University of Auckland | CIVIL 230 | Fluid Mechanics I | ENSC 352 | Fluid Mechanics | *Civil Engineering majors ONLY | YES |
| University of Auckland | CIVIL 250 | Civil Engineering and Design | CENG 302L | Construction of Materials Lab | | YES |
| University of Auckland | CIVIL 314 | Structural Dynamics | CENG 420 | Structural Dynamics | | YES |
| University of Auckland | CIVIL 331 | Hydraulic Engineering & Lab | CENG 352 + L | Hydraulic Engineering + Lab | | YES |

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|---|---|---|---|---|---|---|
| University of Auckland | CIVIL 360 | Transportation Engineering 1 | CENG 318 | Transportation Engineering 1 | | YES |
| University of Auckland | CIVIL 361 | Transportation Engineering 2 | CENG 313 | Transportation Engineering 1 | | YES |
| University of Auckland | COMPSCI 130 | Software Fundamentals | CPSC 213 | 200 Level Elective | | YES |
| University of Auckland | COMPSCI 220 | Algorithms and Data Structures | CPSC 223 | Algorithm and Abstract Data Structures | | YES |
| University of Auckland | COMPSCI 230 | Software Construction | CPSC 224 | Object Oriented and Event Programming | | YES |
| University of Auckland | COMPSCI 320 | Applied Algorithmic | CPSC 450 | Design and Analysis- Comp Algorithms | | YES |
| University of Auckland | COMPSCI 335 | Distrib Objects, Services and Prog. | CPSC 310 | Special Topics | | YES |
| University of Auckland | COMPSCI 340 | Operating Systems | CPSC 346 | Operating Systems | | YES |
| University of Auckland | COMPSCI 367 | Artificial Intelligence | CPSC 427 | Artificial Intelligence | | YES |
| University of Auckland | ELECTENG 202 | Circuits and Systems | EENG 201+L | Electric Circuits I | | YES |
| University of Auckland | ELECTENG 208 | Electric Circuit Analysis | EENG 202 | Electric Circuits II | | YES |
| University of Auckland | ENGGEN 403 | Managing a Business | CENG 404 | Sustainable Systems and Design | | YES |
| University of Auckland | ENVENG 244 | Environmental Engineering 1 | CENG 303 | Environmental Engineering | | YES |
| University of Auckland | MECHENG 222 (Offered Fall term) | Dynamics | ENSC 306 | Dynamics | | YES |
| University of Auckland | MECHENG 242 | Mechanics of Materials | ENSC 301 | Mechanics of Materials 1 ** **CIVIL MAJORS ONLY** | | YES |
| University of Auckland | SOFTENG 370 | Operating Systems | CPSC 346 | Operative Systems | | YES |
| University of Limerick | CS 416 | Cryptography | CPSC 453 | Applied Cryptography | | YES |