[Nanyang Technological University](http://www.studyabroad.purdue.edu/programs/flyer.cfm?flyer=34&SICountryCode=781&Duration=Fall%20Semester&AcademicSchoolCode=E) - SA 20260

The courses listed below are only some of the possibilities. Students should conduct their own research to find courses that best match their interests and degree needs (see the link above) and then discuss them with Prof Gray.

Please schedule an appoint with Prof. Gray (stop by MSEE 140 or call 49-43390 to make an appointment) to discuss course selection as it pertains to your needs.

NTU Content of Courses: <https://wish.wis.ntu.edu.sg/webexe/owa/AUS_SUBJ_CONT.main_display>

| **NTU course** | **Purdue course** |
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| MH1812/CE1001/CZ1001 Discrete Mathematics (3 AU) | ECE 39595 Discrete Mathematics (3 cr.) [Use in place of ECE 36900] |
| EE2002 Analog Electronics (4 AU) | ECE 29595 Analog Electronics (4 cr.) [Use in place of ECE 25500] |
| EE2003 Semiconductor Fundamentals (4 AU) | ECE 39595 Semiconductor Fundamentals (4 cr.) [Use in place of ECE 30500] |
| EE2010 Signals & Systems (4 AU) | ECE 39595 Signals & Systems (4 cr.) [Use in place of ECE 30100] |
| EE3014 Digital Signal Processing (3 AU) | ECE 39595 Digital Signal Processing (3 cr.) [Use as EE Adv. Selective (no lab) in Comm. area. Precludes ECE 43800] |
| MH1200 Linear Algebra I (4 AU) | ECE 29595 Linear Algebra I (4 cr.) [Use in place of MA 26500. Cannot be used as prereq for MA courses at PWL] |
| CE 2005 Operating Systems (3 AU) | ECE 39595 Operating systems (3 cr.) [Use as EE Elective, no credit if ECE46900 taken. CmpE students may use as CmpE Elective, but must then take ECE 46800] |
| MS 1015 Materials Science (3 AU) | ECE 19595 Materials Science (3 cr.) [use as Engr Breadth] |
| MS 2014 Materials Structure and Defects (3 AU) | ECE 19595 Materials Structure and Defects (3 cr.) [Engr Breadth] |
| CZ 2003 or EE 4266 Computer Graphics and Visualization (3 AU) | ECE 39595 Computer Graphics and Visualization (3 cr.) [EE/CmpE Elective] |
| EE 3012 Semiconductor Devices and Processing (3 AU) | ECE 39595 Semiconductor Devices and Processing (3 cr.) [EE Adv Selective in place of ECE 30500] |
| CE 4065 or EE 4758 Digital Forensics/Information Security (3 AU) | ECE 49595 Digital Forensics (3 cr.) [EE/CmpE Elective] |
| CE 2006 Software Engineering (3 AU) | ECE 39595 Software Engineering [EE/CmpE Elective] |
| EE 3001 Engineering Electromagnetics (4 AU) | ECE 39595 Engineering Electromagnetics (4 cr.) [Use in place of ECE 31100/ECE 30411] |
| LG49002 German Level 2 3 AU | ECE 29595 German Level 2 (3 cr) [use as upper level gen. ed.] |
| EE4904 Biomedical Instrumentation | EE 49595 Biomedical Instrumentation (3 PWL) [EE Elec Special Content] |
| EE9098 Undergraduate Research Opportunity Program | ECE 49600 Undergraduate Research Opportunity Programme (3 PWL) [special content with lab] |
| HH3003 Migration & Diaspora: Chinese Experiences in Comparative Perspective | ECE 39595 Migration & Diaspora: Chinese Experiences in Comparative Perspective(3 PWL) [Adv Level GenEd] |
| BG2110 Bioelectricity | ECE 29595 Bioelectricity (3 PWL) [Engr Breadth] |
| CV0001 Civil Engineering and the Sustainable Built Environment | ECE 39595 Civil Engineering and the Sustainable Built Environment (3 cr) [Engr Breadth]  |
| CV0002 Engineers and Society 3AU | ECE 39595 Engineers and Society (3 cr) [Advanced Level GenEd]  |
| CE4056 Cyber Physical Systems Design 3AU | ECE 49595 Cyber Physical Systems Security (3 cr) [CmpE Selective] |
| CE4055 or CZ4055 Cyber Physical Systems Security | ECE 49595 Cyber Physical Systems Security (3 cr) [CmpE Selective] |