

國際交換/海外留學(一學期) 課程規劃與銜接

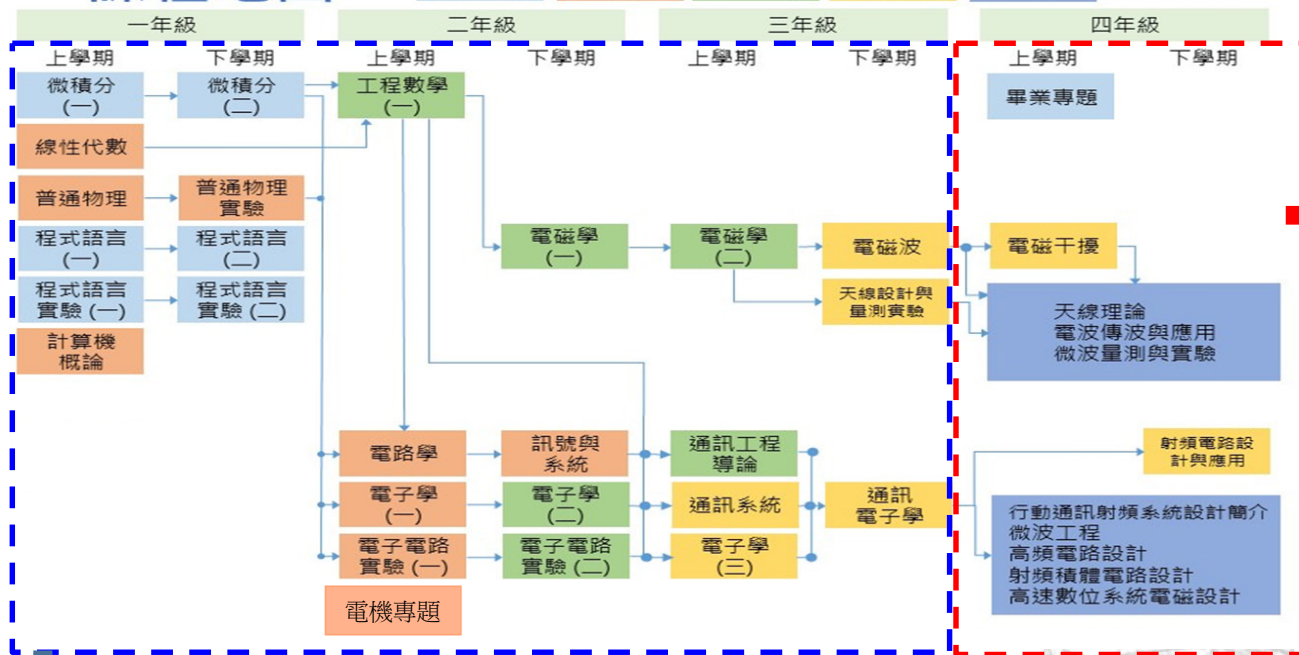
以修習乙組高頻技術學程學生至Ohio State University 為例



電機系乙組畢業學分要求 ➡ 乙組選修：61學分（本組專業選修至少選修44學分，並包含本組任一特色學程）。

高頻技術學程 課程地圖

共同必修, 程式通識 | 電機乙組必修 | 高頻技術學程必修 | 高頻技術學程選修 | 高頻技術學程選修(研究所) | 依據107學年辦法與開課情況繪製



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規劃於大四交換之學生須於在校及交換期間修得

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- 畢業專題(3學分), 須於元智完成
 - 專業選修11學分(最高), 可以交換期間修得學分抵免, 可抵免課程對應見下頁之表格。
- 滿足以上, 即可準時畢業

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上述要求可於一學期達成

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出國交換一學期應無虞

Go for it!

學生於大一至大三最低可修得
電機系乙組必修：25學分+ 高頻技術必選修33學分

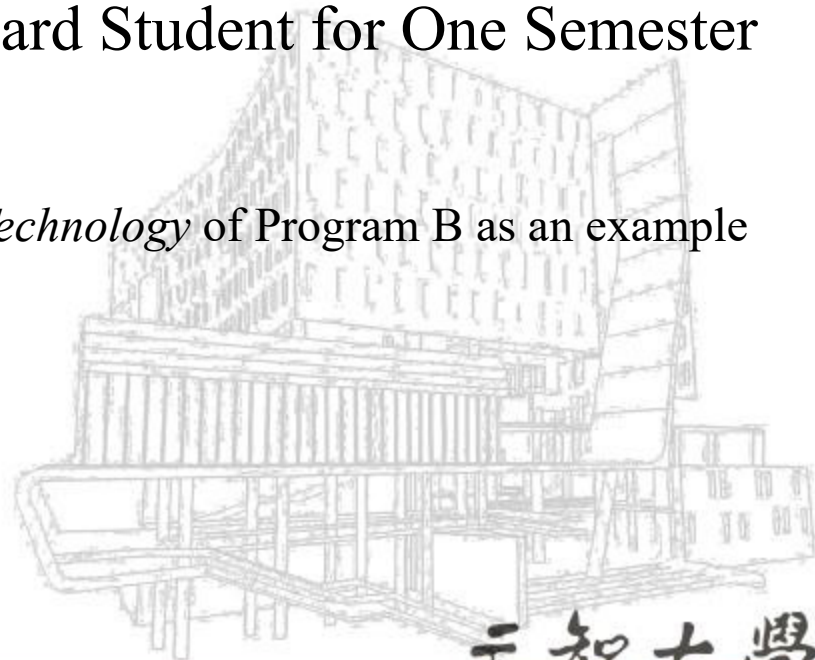
乙組專業(高頻技術學程)選修	OSU 對應專業選修
天線理論	ECE 5010 Antennas
電波傳播與應用	ECE 5011 Wireless Propagation and Remote Sensing
微波工程	ECE 5017 Microwave Engineering
高頻電路設計	ECE 5027 Microwave Electronics
射頻積體電路設計	ECE 7022 Advanced RF Integrated Circuits
高數數位系統電磁設計	ECE 7023 High Speed Interface Circuits and Systems Design
行動通訊射頻系統設計簡介	ECE 5022 Introduction to RF Systems

乙組選修中非
專業選修17學分
對應課程

ECE3090 Technical Writing and Presentations
 ECE 7831 Microwave Semiconductor Devices
 ECE 5021 Analog Integrated Circuits II
 ECE 4567 Design of Mobile Internet-of-Things
 ECE 3010 Introduction to Radio Frequency and Optical Engineering
 ECE 7821 Mixed Signal Verification and CAD Tools
 ECE 5013 Introduction to Radar Systems
 ECE 6010 Electromagnetic Field Theory I

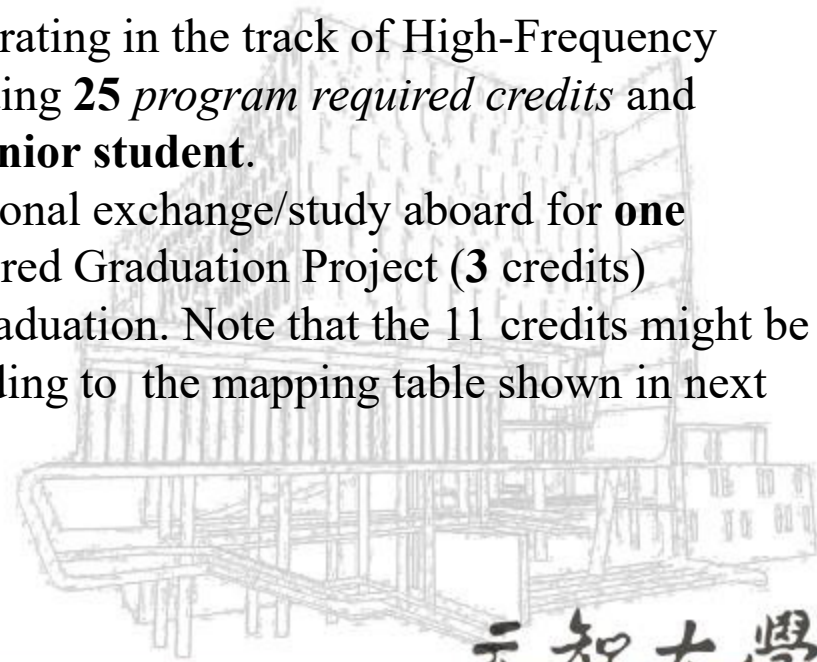
Fulfillment of Graduation Requirements on Course Credits as an International Exchange/ Studying Aboard Student for One Semester

-Take a student concentrating in *High-Frequency Technology* of Program B as an example



Referring to the **course timetable** available on the program website,

- Students are required to complete **61** *program-required elective credits*, including **44** *track-required elective credits*, for graduation.
- Generally speaking, undergraduate students concentrating in the track of High-Frequency Technology might receive at least 58 credits, including **25** *program required credits* and **33** *track-required and elective credits* as a **rising senior student**.
- Hence, students who would like to conduct international exchange/study aboard for **one semester** in their senior year need to complete required Graduation Project (**3** credits) and **11** *track-required elective* credits for on-time graduation. Note that the 11 credits might be transferred with the credits earned from OSU according to the mapping table shown in next slide.



* ECE: Acronym of Department of Electrical Engineering at OSU

Track-required Elective Courses (Program B, YZU)	Corresponded Courses at OSU
EEB507 Antenna Theory	ECE 5010 Antennas
EEB558 Propagation and Applications of Radio Waves	ECE 5011 Wireless Propagation and Remote Sensing
EEB504 Microwave Engineering	ECE 5017 Microwave Engineering
EEB505 High Frequency Circuit Design	ECE 5027 Microwave Electronics
EEB550 Radio Frequency Integrated Circuit Design	ECE 7022 Advanced RF Integrated Circuits
EEB555 Electromagnetics for High Speed Digital System Design	ECE 7023 High Speed Interface Circuits and Systems Design
EEB564 Introduction to RF System Design for Mobile Communications Systems	ECE 5022 Introduction to RF Systems

Other elective courses for earning 17 non-track required elective course credits.



- ECE3090 Technical Writing and Presentations
- ECE 7831 Microwave Semiconductor Devices
- ECE 5021 Analog Integrated Circuits II
- ECE 4567 Design of Mobile Internet-of-Things
- ECE 3010 Introduction to Radio Frequency and Optical Engineering
- ECE 7821 Mixed Signal Verification and CAD Tools
- ECE 5013 Introduction to Radar Systems
- ECE 6010 Electromagnetic Field Theory I