

# Q2S Equivalent Courses

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## Core Classes

Please use these guidelines with the color-coded diagram of pre-requisites and the list of course names and numbers.

1. 214 and 2140 will be considered equivalent.
2. The policy core classes should be considered as a unit, e.g., take 302+304 or 3020+3021. In unusual cases, you can take 3021 after 302. We plan to offer a “transitional” 304 in Fall Semester 2012.
3. The technology core classes should be taken as a unit. Either complete 220+230+330+308, or 2300+3100+3110. If needed, 3110 may be taken after completion of 220+230+330. We plan to offer a “transitional” 308 in Fall Semester 2012.
4. 444 and 4440 will be considered equivalent.

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## Electives

In general, two semester electives are equivalent to three quarter electives. If you want to be efficient with your time, you should complete 1, 3, or 5 electives under quarters. Specifically:

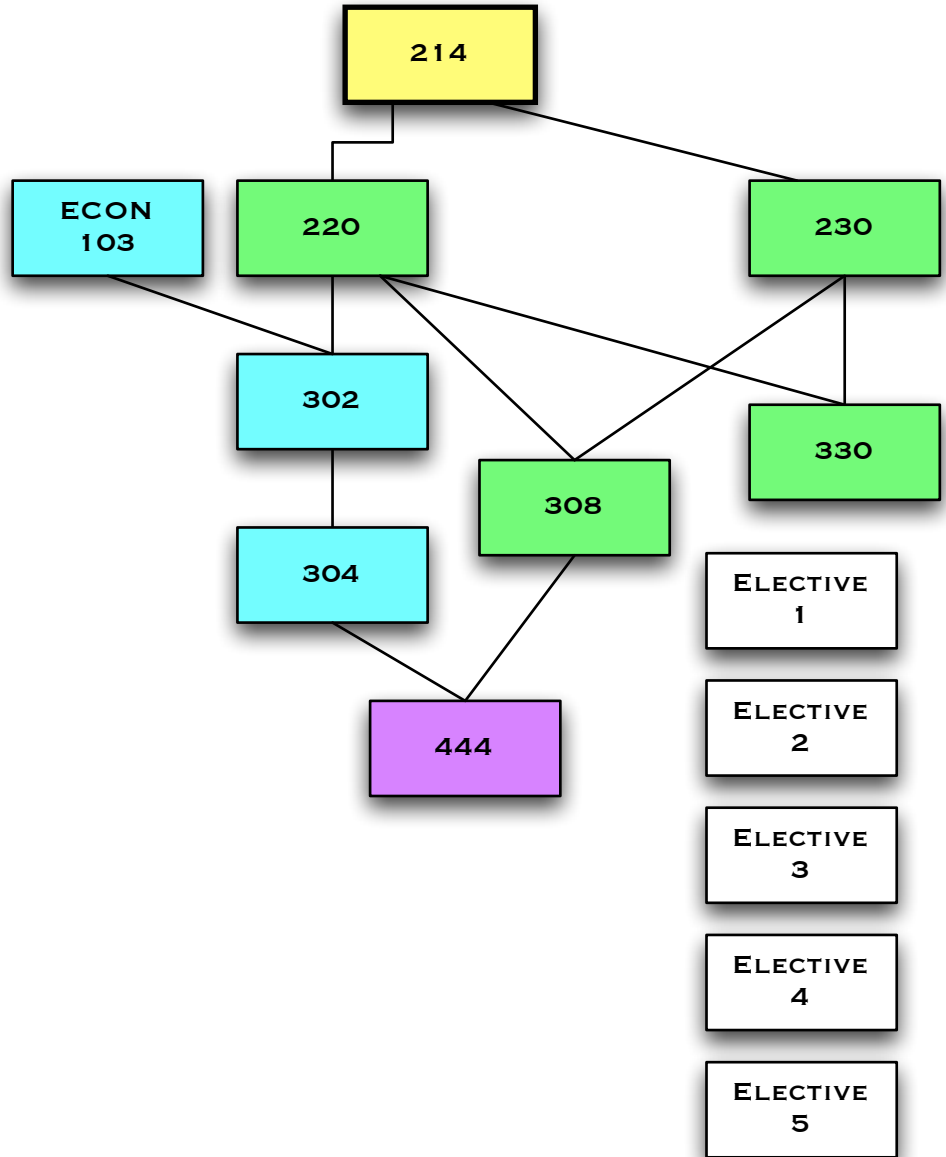
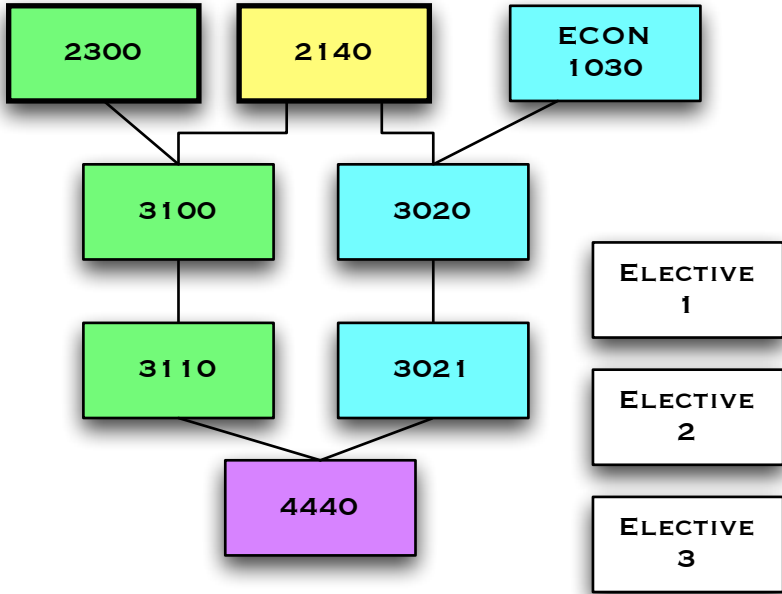
- If you have taken no quarter electives, complete 3 semester electives.
- If you have taken 1 or 2 quarter electives, take 2 additional semester electives.
- If you have taken 3 or 4 quarter electives, take 1 additional semester elective.
- If you have taken 5 quarter electives, you do not need to take any semester electives.

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## Area of Concentration

1. If you have not started your Area of Concentration (AoC), you need to complete 4 semester courses.
2. If you have started, but not yet completed, your Area of Concentration, talk to your advisor about the number of classes above the 200 level (2000 level in semesters) you need to complete. Overall:
  - If you have completed 1 AoC quarter class, take 3 additional semester classes.
  - If you have completed 2 or 3 AoC quarter classes, take 2 additional semester classes.
  - If you have completed 4 AoC quarter classes, take 1 additional semester class.

# ITS Classes





**Curriculum Check Sheet – Semester Version**

Your most important academic resource is your advisor! See him/her regularly. The *Undergraduate Catalog* is the final authority for degree requirements. This check sheet is intended to be a quick aid, not a complete guide.

**ITS Course Requirements**

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You must complete the following 4 courses with a grade of C or better:

- ITS 2140 Introduction to Information and Telecommunication Systems (3 semester hours)  
Prerequisite: None
  - ITS 2300 Data Communications w. Lab (4)  
Prerequisite: None
  - ITS 3100 Internet Applications and Networking Systems w. Lab (4)  
Prerequisite: C or Better in (2140 and 2300)
  - ITS 3020 Fundamentals of Common Carrier Regulation (3)  
Prerequisites: (C or Better in 2140) and ECON 1030
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You must complete the following 3 courses.

- ITS 3110 Network Transport, Optical Networking w. Lab (4 semester hours)  
Prerequisite: 3100
  - ITS 3021 Applications of Common Carrier Regulation (3)  
Prerequisite: C or Better in 3020 and ITS Major
  - ITS 4440 Lifecycle Management of Telecom Systems (3)  
Prerequisite: 3110 and 3021
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Select 3 courses [at least 9 semester hours] from the following list of elective courses.

- ITS 3790 Geographic Information Systems (3 semester hours)  
Prerequisite: 2140
- ITS 4050 Market Structure (3)  
Prerequisite: 2021
- ITS 4070 International Communication Networks (3)  
Prerequisite: C or Better in 3020
- ITS 4110 Pricing of Telecommunication Services (3)  
Prerequisite: 3020
- ITS 4290 Comm Network Analysis and Design (3)  
Prerequisite: 3110 and PSY 2110
- ITS 4310 Privacy in the Information Age (3)  
Prerequisite: JR or SR
- ITS 4370 Wireless Networking (3)  
Prerequisite: C or Better in 2300
- ITS 4410 Voice over IP Systems (3)  
Prerequisite: C or Better in 3100
- ITS 4510 Telecom Network Security (3)  
Prerequisite: C or Better in 3100
- ITS 4530 Encrypted Communication (3)  
Prerequisite: 2300
- ITS 4750 Internet Engineering (4)  
Prerequisite: 3100, No credit if CS 4750
- ITS 4900 Topical Seminar (1-3)  
Prerequisite: 3020 and 3100

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These optional courses are not required and do not count as electives. See your advisor.

- ITS 1010 Consumer Issues (3 semester hours)
  - ITS 2010 Understanding Internet Technology (3)
  - ITS 4910 Internship in Communication (1-12 semester hours)  
Prerequisite: Permission
  - ITS 4920 Practicum (1-3)  
Prerequisite: Permission
  - ITS 4930 Special Studies (1-3)  
Prerequisite: Permission
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### General Requirements

You must complete these 12 courses. You can choose among several programming courses. See your advisor.

- ACCT 1010 Foundations of Accounting (3)  
Prerequisite: Math Placement level 1 or higher
- ACCT 1020 Managerial Accounting (3)  
Prerequisite: ACCT 1010 & ECON 1030
- BUSL 2000 Law and Society (3)  
Prerequisite: SOPH OR JR OR SR & NOT COB, No Credit if taken after BUSL 2550
- ECON 1030 Principles of Microeconomics (3) (Tier 2: 2SS)  
Prerequisite: Math placement level 2 or higher or permission.
- ECON 1040 Principles of Macroeconomics (3) (Tier 2: 2SS)  
Prerequisite: Math placement level 2 or higher or permission.
- MGT 2000 Introduction to Management (3)  
Prerequisite: SOPH OR JR OR SR, Not COB, No Credit if taken after MGT 2100.
- MKT 2020 Marketing Principles (3)  
Prerequisite: NOT COB, No Credit if taken after MKT 2400.
- PSY 2110 Statistics for the Behavioral Sciences (4) (Tier I Quantitative Skills: 1M)  
Prerequisite: Math Placement level 2 or higher or MATH 1200 or 1300 or 2301 & (NOT MATH 2500 or QBA 2010 or ECON 3810 or COMS 3520)
- FIN 2020 Foundations of Financial Management (3)  
Prerequisite: ACCT 1010 & NOT COB & NOT 3100. No Credit if taken after FIN 2400.
- COMS 1030 Fundamentals of Public Speaking (3)  
Prerequisite: None
- MIS 2021 Business Information Systems Nonmajor (3)  
Prerequisite: Not COB, No credit if MIS 2020
- Computer Programming  
See your advisor for choices, which include CS 2300, CS2400, and others.

### Area of Concentration

The area of concentration gives you a chance to identify an area which will help you prepare for your specific individual career goals. The area of concentration cannot be a random mix of courses; it should be a group of courses, usually from one or two departments, which contribute to a telecom career. Examples of areas of concentration include Computer Science, Management, Communication Studies, International Studies, Political Science, Economics, Marketing, Foreign Languages, and many other possibilities.

You should begin discussing your choices with your advisor as soon as possible. By the time you have attained junior rank and have completed ITS 2140, you should have identified your four course area of concentration.

Please note: Courses identified as part of the area of concentration cannot be used to fulfill any other requirements for the ITS curriculum.

Check in the school office for the Declaration of Area of Concentration form which must be completed and filed in the school office. The Declaration form also has samples of areas that have worked for others.

## Tentative ITS Undergraduate Course Offerings

Not Shown:

- Gen Ed (101, 201)
- Grad

Winter Quarter 2011-12		Fall Semester 2012-13	
214	308	2140	4330
<b>220</b>	351	2300	4510
<b>230</b>	407	<b>304 T</b>	4410
304	475	<b>308 T</b>	
Spring Quarter 2011-12		Spring Semester 2012-13	
214	429	2140	4370
<b>302</b>	437	3020	4440
<b>330</b>	<b>444</b>	3100	4290
391(0)	453	4530	4750
405			
Summer Quarter 2011-12			
? TBD			

### Quarter Courses

ITS 214	Introduction to ITS
ITS 220	Communication Systems & Applications
ITS 230	Data Networking I
ITS 302	Fundamentals of Common Carrier Regulation
ITS 304	Applications of Common Carrier Regulation
ITS 308	Fundamentals of Telecom Technology
ITS 330	Data Networking II
ITS 444	Management of Communication Resources
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ITS 351	Privacy in the Information Age
ITS 391	Topical Seminar
ITS 391(0)	Broadband Access
ITS 391(1)	Next Generation Network Management
ITS 405	Competition and Market Structure in Network Industries
ITS 407	International Communication Networks
ITS 411	Pricing of Telecommunication Services
ITS 429	Network Analysis and Design
ITS 437	Wireless Telecom Networking
ITS 441	Voice over IP
ITS 451	Telecommunication Network Security
ITS 453	Encrypted Communication
ITS 475	Internet Engineering
ITS 491	Topical Seminar
ITS 491(0)	Network Performance

### Semester Courses

ITS 2140	Introduction to ITS
ITS 2300	Data Networking
ITS 3020	Info & Telecom Policy I
ITS 3021	Info & Telecom Policy II
ITS 3100	Internet Apps/Network Systems
ITS 3110	Communication Foundations
ITS 4440	Lifecycle Mgt Telecom Systems
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ITS 4900	Topical Seminar
ITS 4050	Telecom Market Structures
ITS 4070	International Communication Networks
ITS 4110	Telecom Pricing
ITS 4290	Network Analysis and Design
ITS 4310	Privacy in the Internet Age
ITS 4320	Gender and IT
ITS 4330	IT Compliance And Planning
ITS 4370	Wireless Communication
ITS 4410	Voice Over IP
ITS 4510	Network Security
ITS 4530	Encrypted Communication
ITS 4750	Internet Engineering

**Last Chance for Required Quarter Classes!**

Name: \_\_\_\_\_

Tier 1

Hours Done	Quarter Course	W12 hours	S12 hours	Semester Course	F13 hours	S13 hours	Later
	1E - Eng 151 (5)			Eng 1510 (3)			
	1M - Math 113 (5)			Math 1200 (4)			
	1J - any (4)			any (3)			
	Sub-Total			Sub-Total			

Tier 2

Hours Done	Area min 3 hours per area	W12 hours	S12 hours	Semester min 2 hours per area	F13 hours	S13 hours	Later
	2AS			2AS			
	2CP			2CP			
	2FA			2FA			
	2HL			2HL			
	2NS			2NS			
	2SS			2SS			
	Sub-Total (32 req.)			Sub-Total (21 required)			

ITS

Hours Done	Quarter Course	W12 hours	S12 hours	Semester Course	F13 hours	S13 hours	Later
	214 (4)			2140 (3)			
	220 (4)		n/a	2300 (4)		n/a	
	230 (4)		n/a	3100 (4)	n/a		
	330 (4)	n/a		3110 (4)	n/a	n/a	
	308 (4)		n/a	308-transitional (3)		n/a	n/a
	302 (4)	n/a		3020 (3)	n/a		
	304 (4)		n/a	304-transitional (3)		n/a	n/a
				3021 (3)	n/a	n/a	
	444 (4) (Tier III)	n/a		4440 (3) (Tier III)	n/a		
	Elective (4)			Elective (3)			
	Elective (4)			Elective (3)			
	Elective (4)			Elective (3)			
	Elective (4)						
	Elective (4)						
	Sub-Total			Sub-Total			

### Non-ITS

Hours Done	Quarter Course	W12 hours	S12 hours	Semester Course	F13 hours	S13 hours	Later
	Acct 101 (4)			Acct 1010 (3)			
	Acct 102 (4)			Acct 1020 (3)			
	Busl 255 (4)			Busl 2000 (3)			
	Econ 103 (4)			Econ 1030 (3)			
	Econ 104 (4)			Econ 1040 (3)			
	Mgt 202 (4)			Mgt 2000 (3)			
	Mkt 202 (4)			Mkt 2020 (3)			
	Stats (Psy 221) (5)			Stats (Psy 2110) (4)			
	Coms 101 (4)			n/a			
	Coms 215 (4)			n/a			
	n/a			Fin 2020 (3)			
	Coms 103 (4)			Coms 1030 (3)			
	Mis 201B (4)			Mis 2021 (3)			
	Programming (CS 230) (5)			Programming (CS 2300) (4)			
	A.o.C. (4)			A.o.C. (3)			
	A.o.C. (4)			A.o.C. (3)			
	A.o.C. (4)			A.o.C. (3)			
	A.o.C. (4)			A.o.C. (3)			
	A.o.C. (4)						
	Sub-Total			Sub-Total			

### Other

Hours Done	Course	W12 hours	S12 hours	Semester Course	F13 hours	S13 hours	Later
	<- other courses ->						
	<- Sub-Totals ->			Sub-Total:			
	Total Quarter Hours:			Multiply by 2/3:			
				Subtotal: Semester Hours:			
				Additional Free Electives			
				Total (min 120 hours)			