

CARDIAC SONOGRAPHY: One Year Concentration (1261-CSON)

CRN	Semester I	
61507	RSCS 302 Noninvasive Testing Principles & Proc.	1
70681	RSCS 311 Cardiovascular Physiology	2
70674	RSCS 321 Patient Care & Services in Diagnostic Imaging	2
61509	RSCS 331 Cardiac Procedures I	2
61510	RSCS 351 Cardiac Principles I	3
70679	RSCS 400 Ultrasound Physics I	2
72142	RSCS 411 Clinical Cardiac I	6
72170	RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total		19
	Semester II	
80228	RSCS 312 Cardiovascular Pathophysiology	2
61200	RSCS 332 Cardiac Procedures II	2
85777	RSCS 352 Cardiac Principles II	3
80248	RSCS 403 Ultrasound Physics II	2
61202	RSCS 412 Clinical Cardiac II	6
81514	RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total		16
	Semester III	
60513	RSCS 413 Clinical Cardiac III	8
70499	RSCS 481 Cardiac Review Seminar	2
Semester III Total		10
Program Total		45

Reviewed as of 9/2021

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Two Year Concentration: Cardiac Sonography/GS (1233-CSON-

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

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Semester IV	
RSS 402 Abdominal Sonography I	2
RSS 404 Pelvic Sonography	2
RSS 412 Clinical Sonography I	6
RSS 415 Sonography Procedures I	2
Semester IV Total	12
Semester V	
RSS 405 Obstetrical Sonography	3
RSS 413 Clinical Sonography II	6
RSS 416 High Resolution Sonography	2
RSS 417 Sonography Procedures II	2
RSS 422 Abdominal Sonography II	2
RSS 498 Special Topics in General Sonography	2
Semester V Total	17
Semester VI	
RSS 408 Sonography Review Seminar	2
RSS 414 Clinical Sonography III	8
Semester VI Total	10
Program Total	84

**Two Year Concentration: Cardiac Sonography/ICVT (1233-
CSO-**

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
RSI 338 Invasive Procedures I	3
RSI 341 Radiation Physics & Instrumentation I	2
RSI 357 Invasive Principles I	3
RSI 431 Clinical Invasive I	6
Semester IV Total	14
Semester V	
RSI 313 Radiobiology & Health Physics	2
RSI 339 Invasive Procedures II	3
RSI 342 Radiation Physics & Instrumentation II	2
RSI 358 Invasive Principles II	3
RSI 432 Clinical Invasive II	6
Semester V Total	16
Semester VI	
RSI 433 Clinical Invasive III	8
RSI 483 Invasive Review Seminar	2
Semester VI Total	10
Program Total	85

**Two Year Concentration: Cardiac Sonography/MRI (1233-
CSON-MRI))**

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
RSM 400 MRI Physics & Instrumentation I	3
RSM 401 Cross-Sectional Anatomy I	2
RSM 411 MRI Safety	2
RSM 412 Clinical MRI I	6
RSM 431 MRI Procedures I	3
Semester IV Total	16
Semester V	
RSM 402 Cross-Sectional Anatomy II	2
RSM 403 MRI Physics and Instrumentation II	1
RSM 413 Clinical MRI II	6
RSM 415 MRI Pathology	1
RSM 432 MRI Procedures II	3
RSM 451 Imaging Informatics	1
RSM 498 MRI Special Topics	1
Semester V Total	15
Semester VI	
RSM 414 Clinical MRI III	8
RSM 473 MRI Review Seminar	1
RSM 474 MRI Advanced Scanning Seminar	1
Semester VI Total	11
Program Total	87

**Two Year Concentration: Cardiac Sonography/NM (1233-
CSO-NMED)**

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
RSN 400 Medical Nuclear Physics	3
RSN 410 Medical Radiobiology	2
RSN 430 Nuclear Medicine Instrumentation	3
RSN 455 Nuclear Medicine Procedures I	3
RSN 461 Nuclear Medicine Lab	1
RSN 470 Clinical Nuclear Medicine I	6
Semester IV Total	18
Semester V	
RSN 420 Radiation Protection	3
RSN 440 Health Sciences Research	1
RSN 451 Imaging Informatics	1
RSN 456 Nuclear Medicine Procedures II	3
RSN 460 Radiochemistry & Radiopharmaceuticals	3
RSN 462 Nuclear Medicine Lab II	1
RSN 471 Clinical Nuclear Medicine II	6
Semester V Total	18
Semester VI	
RSN 457 Nuclear Medicine Procedures III	2
RSN 458 Nuclear Medicine Advanced Procedures	2
RSN 472 Clinical Nuclear Medicine III	8
RSN 499 Nuclear Medicine Review Seminar	2
Semester VI Total	14
Program Total	95

**Two Year Concentration: Cardiac Sonography/RT (1233-
CSO-N-RADT)**

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
RST 322 Patient Care in Radiation Oncology	2
RST 401 Cross-Sectional Anatomy I	2
RST 409 Radiation Therapy Principles & Procedures I	3
RST 412 Clinical Radiation Therapy I	6
RST 435 Radiation Therapy Physics I	2
RST 439 Radiation Protection	1
RST 440 Introduction to Radiobiology	2
Semester IV Total	18
Semester V	
RST 402 Cross-Sectional Anatomy II	2
RST 413 Clinical Radiation Therapy II	6
RST 415 Clinical Radiation Oncology	2
RST 416 Principles of Radiation Dosimetry	2
RST 419 Radiation Therapy Principles & Procedures II	3
RST 436 Radiation Therapy Physics II	3
Semester V Total	18
Semester VI	
RST 414 Clinical Radiation Therapy III	10
RST 429 Rad Therapy Principles & Procedures III	2
RST 473 Radiation Therapy Review Seminar	2
Semester VI Total	14
Program Total	95

Two Year Concentration: CS/Radiography (1233-CSON-RADG)

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
RSR 331 Radiographic Procedures I	2
RSR 331L Radiographic Procedures I Lab	1
RSR 341 Radiography Physics & Instrumentation	2
RSR 353 Radiographic Imaging Principles I	2
RSR 361 Image Analysis I	2
RSR 371 Clinical Radiography I	4
Semester IV Total	13
Semester V	
RSR 313 Radiobiology & Health Physics	2
RSR 332 Radiographic Procedures II	2
RSR 332L Radiographic Procedures II Lab	1
RSR 342 Radiographic Physics & Instrumentation II	2
RSR 354 Radiographic Imaging Principles II	2
RSR 362 Image Analysis II	2
RSR 372 Clinical Radiography II	6
Semester V Total	17
Semester VI	
RSR 333 Advanced Radiographic Procedures	1
RSR 333L Advanced Radiographic Procedures Lab	1
RSR 373 Clinical Radiography III	8
RSR 412 Radiographic Pathology	2
RSR 414 Radiography Capstone	1
RSR 471 Radiography Review Seminar	2
Semester VI Total	15
Program Total	90

Two Year Concentration: Cardiac Sonography/VS (1233-CSON-VSON)

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
RSV 335 Vascular Procedures I	2
RSV 353 Vascular Principles I	2
RSV 401 Vascular Anatomy	2
RSV 421 Clinical Vascular I	6
Semester IV Total	12
Semester V	
RSV 336 Vascular Procedures II	2
RSV 354 Vascular Principles II	2
RSV 422 Clinical Vascular II	6
RSV 493 Special Topics in Vascular Sonography	2
Semester V Total	12
Semester VI	
RSV 423 Clinical Vascular III	8
RSV 482 Vascular Review Seminar	2
Semester VI Total	10
Program Total	79

Two Year Concentration: Cardiac Sonography/Education

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
CMST 201 Technology Applications for Healthcare	3
COMM 101 Interpersonal Communication**	3*
COMM 201 Intercultural Communication**	3*
ED 301 Methods of Teaching	3
PSYC 301 Educational Psychology	3
Semester IV Total	12
Semester V	
ED 307 Concepts and Techniques in Assessment	3
ED 401 Technology in Instruction	3
ED 409 Curriculum Design and Evaluation	3
ID 302 Understanding Research principles and the Scientific Method	3
Semester V Total	12
Semester VI	
ID 303 Advanced Research Project Analysis	3
Semester III Total	3
Program Total	72

** Student's choice of two alternative courses

Two Year Concentration: CS/Healthcare IS

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV	
CMST 212 Data Base Management	3
HCA 300 Health Services Delivery and Organization	3
HMIS 310 Management Information Systems in Healthcare	3
HMIS 311 Informatics Resources and Technology for Health Services	3
Semester IV Total	12
Semester V	
HMIS 401 Network Management	3
HMIS 402 Systems Design	3
HMIS 420 Informatics Analysis and Utilization in Health Service Organizations	3
ID 302 Understanding Research Principles and the Scientific Method	3
Semester V Total	12
Semester VI	
ID 303 Advanced Research Project	3
Semester III Total	3
Program Total	72

Two Year Concentration: CS/Health Management

Semester I	
RSCS 302 Noninvasive Testing Principles & Proc.	1
RSCS 311 Cardiovascular Physiology	2
RSCS 321 Patient Care & Services in Diagnostic Imaging	2
RSCS 331 Cardiac Procedures I	2
RSCS 351 Cardiac Principles I	3
RSCS 400 Ultrasound Physics I	2
RSCS 411 Clinical Cardiac I	6
RSCS 491 Special Topics in Cardiac Sonography	1
Semester I Total	19
Semester II	
RSCS 312 Cardiovascular Pathophysiology	2
RSCS 332 Cardiac Procedures II	2
RSCS 352 Cardiac Principles II	3
RSCS 403 Ultrasound Physics II	2
RSCS 412 Clinical Cardiac II	6
RSCS 492 Special Topics in Cardiac Sonography	1
Semester II Total	16
Semester III	
RSCS 413 Clinical Cardiac III	8
RSCS 481 Cardiac Review Seminar	2
Semester III Total	10
First Year Total	45

Semester IV

ACCT 101 Financial Accounting	3
ACCT 102 Managerial Accounting	3
HCA 300 Health Service Delivery and Organization	3
HCA 303 Business and Healthcare Law	3
Semester IV Total	12
Semester V	
ID 302 Understanding Research Principles and the Scientific Method	3
MGMT 101 Principles of Management and Organizational Behavior	3
MGMT 304 Management and Organization in Health Service Organizations	3
PHIL 301 Healthcare Ethics	3
Semester V Total	12
Semester VI	
IDC 303 Advanced Research Project Analysis	3
Semester III Total	3
Program Total	71*/72