

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 |

Two Year Concentration: Cardiac Sonography/Abdomen-Extended & OB/GYN (General) Sonography (1233-CSON-ABOB)

| 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 | |
|--|-----------|
| 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-
CSON-ICVT)**

| 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 | 12 |
| Program Total | 86 |

**Two Year Concentration: Cardiac Sonography/NM (1233-
CSON-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-
CSON-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 | 15 |
| 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 | 75 |

** *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 | 72 |