W  DMSO 1210  Introduction to Sonography  CIP Code 51.0910  Credit Hours 2

**Banner Course Text**
Introduces the profession of sonography and the role of the sonographer. Emphasizes medical terminology, ethical/legal aspects, written and verbal communication, and professional issues relating to registry, accreditation, professional organizations and history of the profession. A grade of "C" or better is required in this course to take the next course. (2:1). Lab fee.

**Banner Course Description**
Introduces the profession of sonography and the role of the sonographer. A grade of "C" or better is required in this course to take the next course. <INDNT> Lab fee.

W  DMSO 1242  Intermediate Ultrasound Physics  CIP Code 51.0910  Credit Hours 2

**Banner Course Text**
Continues the study of Basic Ultrasound Physics. Includes interaction of ultrasound with tissues, the mechanics of ultrasound production and display, various transducer designs and construction, quality assurance, bioeffects, and image artifacts. May introduce methods of Doppler flow analysis. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DMSO 1302. (2:1). Lab fee. Physics Mock Exam fee.

**Banner Course Description**
Basic ultrasound physics, effects on tissues various designs, and quality assurance. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DMSO 1302. Lab fee. Physics Mock Exam fee.

W  DMSO 1260  Clinical-Diagnostic Medical Sonography/ Sonographer and Ultrasound Technician I  CIP Code 51.0910  Credit Hours 2

**Banner Course Text**
Provides a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. A grade of "C" or better is required in this course to take the next course. (0:12). Professional Practice Insurance required.

**Banner Course Description**
Health-related work-based learning experience with direct supervision. A grade of "C" or better is required in this course to take the next course. <INDNT> Professional Practice Insurance fee.

W  DMSO 1302  Basic Ultrasound Physics  CIP Code 51.0910  Credit Hours 3

**Banner Course Text**
Provides basic acoustical physics and acoustical waves in human tissue. Emphasizes ultrasound transmission in soft tissues, attenuation of sound energy, parameters affecting sound transmission, and resolution of sound beams. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** MATH 1314. (3:1). Lab fee.

**Banner Course Description**
Basic acoustical physics and acoustical waves in human tissue. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: MATH 1314. Lab fee.

W  DMSO 1355  Sonographic Pathophysiology  CIP Code 51.0910  Credit Hours 3

**Banner Course Text**
Studies the pathology and pathophysiology of the abdominal structures visualized with ultrasound. Includes abdomen and pelvis. A grade of "C" or better is required in this course to take the next course. **Prerequisites:** DMSO 1441 and DMSO 2405. (3:0).

**Banner Course Description**
Pathology and pathophysiology of abdominal structures. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DMSO 1441 and DMSO 2405.

W  DMSO 1441  Abdominopelvic Sonography  CIP Code 51.0910  Credit Hours 4

**Banner Course Text**
Studies normal anatomy and physiology of the abdominal and pelvic cavities as related to scanning techniques, transducer selection, and scanning protocols. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DMSO 2405. (4:1). Lab fee. ABD Mock Exam fee.
Banner Course Description
Normal anatomy and physiology of the abdominal and pelvic cavities as related to scanning techniques, transducer selection, and scanning protocols. A grade of "C" or better is required in this course to take the next course. 
<INDNT> Pre: DMSO 2405. Lab fee. ABD Mock Exam fee.

Banner Course Text
Provides a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DMSO 1260. (0:24). **Professional Practice Insurance required.**

Banner Course Description
Health-related work-based learning experience with direct supervision. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DMSO 1260. Professional Practice Insurance fee.

Banner Course Text
Provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DMSO 1460. Corequisite: DSVT 1200. (0:18). **Professional Practice Insurance required.**

Banner Course Description
Practical general workplace training. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DMSO 1460. Co: DSVT 1200. Professional Practice Insurance fee.

Banner Course Text
Presents exploration of advanced sonographic procedures and emerging ultrasound applications. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DSVT 1200. (3:0).

Banner Course Description
Advanced sonographic procedures and applications. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DSVT 1200.

Banner Course Text
Studies Doppler and hemodynamic principles relating to arterial and venous imaging and testing. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DMSO 1242. (3:1). Lab fee.

Banner Course Description
Doppler and hemodynamic principles relating to arterial and venous imaging and testing. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DMSO 1242. Lab fee.

Banner Course Text
Provides a detailed study of normal and pathological superficial structures as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. A grade of "C" or better is required in this course to take the next course. **Prerequisite:** DSVT 1200. (3:0).

Banner Course Description
Normal and pathological superficial structures. A grade of "C" or better is required in this course to take the next course. <INDNT> Pre: DSVT 1200.
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<th>Course Code</th>
<th>Course Description</th>
<th>CIP Code</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>DMSO 2366</td>
<td>Practicum-(or Field Experience)-Diagnostic Medical Sonography</td>
<td>51.0910</td>
<td>3</td>
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<td>Sonographer and Ultrasound Technician III</td>
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<td>W</td>
<td>Banner Course Text</td>
<td>Provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A grade of &quot;C&quot; or better is required in this course to take the next course. Prerequisite: DMSO 2266. Professional Practice Insurance required.</td>
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<tr>
<td>W</td>
<td>Banner Course Description</td>
<td>Practical general workplace training. A grade of &quot;C&quot; or better is required in this course to take the next course. Prerequisite: DMSO 2266. Professional Practice Insurance fee.</td>
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| DMSO 2367   | Practicum-(or Field Experience)-Diagnostic Medical Sonography| 51.0910  | 3            |
|             | Sonographer and Ultrasound Technician II  |
| W           | Banner Course Text | Provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A grade of "C" or better is required in this course to take the next course. Prerequisite: DMSO 2266. Professional Practice Insurance required. |
| W           | Banner Course Description | Practical general workplace training. A grade of "C" or better is required in this course to take the next course. Prerequisite: DMSO 2266. Professional Practice Insurance fee. |

| DMSO 2405   | Sonography of Obstetrics| 51.0910  | 5            |
|             | Gynecology  |
| W           | Banner Course Text | Provides a detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols as well as fetal abnormalities. A grade of "C" or better is required in this course to take the next course. Prerequisites: DMSO 1210 and PHYS 1301 and 1101. (4:1). Lab fee. OB/GYN Mock Exam fee. |
| W           | Banner Course Description | Study of pelvis and obstetrics/gynecology. A grade of "C" or better is required in this course to take the next course. Prerequisite: DMSO 1210 and PHYS 1301 and 1101. Lab fee. OB/GYN Mock Exam fee. |

| DSVT 1200   | Principles of Vascular Technology | 51.0910  | 2            |
|             |  |
| W           | Banner Course Text | Introduces non-invasive vascular technology modalities. Includes 2D imaging, Doppler, plethysmography, and segmental pressures. Emphasizes performing basic venous and arterial imaging and non-imaging exams. A grade of "C" or better is required in this course to take the next course. Prerequisite: DMSO 1302. Lab fee. |
| W           | Banner Course Description | Introduction to non-invasive vascular technology modalities. Includes 2D imaging, Doppler, plethysmography, and segmental pressures. A grade of "C" or better is required in this course to take the next course. Prerequisite: DMSO 1302. Lab fee. |