

## Edgewood College

### Curriculum for the Medical Science Major with a Sonography Concentration

Fall Semester – Freshman Year		Credits	Spring Semester – Freshman Year		Credits
MATH 114A	Precalculus A: College Algebra (M)	3	<sup>1</sup> CHEM 120/110	General Chemistry (S)	4
MATH 114B	Precalculus B: Trigonometry Or B or better in high school Trig.	2	BIO 155	Human Cell Biology & Genetics (S)	4
ENG 110	College Writing (W)	4	PHILOS 101	Logic: Critical Thinking (T)	3
<i>COR I</i>	<i>(Select: D, E, G, Q)</i>	3-4	PSYCH 101	Intro to Psychology (J)	4
<i>Gen Ed</i>	<i>(Select: H or R with D,E,G,Q)</i>	4	<i>Gen Ed</i>	<i>(Select: A, C, H, or R with D,E,G,Q)</i>	3-4
Total Credits		16-17	Total Credits		17-18

Fall Semester – Sophomore Year		Credits	Spring Semester – Sophomore Year		Credits
BIO 210	Anatomy & Physiology I	4	BIO 211	Anatomy & Physiology II	4
PSYCH 345	Life Span Development	4	PHYSICS 130	General Physics (S)	4
<sup>a</sup> PHIL 442	Health Care Ethics (P)	4	BIO 251	Intro to Biology Research I (I)	3
<i>COR II</i>	<i>(Select: D, E, G, Q)</i>	3-4	COMMS 100	Oral Communication (O)	3
<i>Gen Ed</i>	<i>Select B tag</i>	2	<i>Gen Ed</i>	<i>(Select: A, C, H, or R with D,E,G,Q)</i>	3-4
Total Credits		17-18	Total Credits		17-18

Fall Semester – Junior Year		Credits	Spring Semester – Junior Year		Credits
BIO 412	Pathophysiology	3	<i>*Take any remaining courses to complete general education or minor requirements</i>		
PHYSICS 131	General Physics II (S)	4			
BIO 202	Medical Terminology	2			
<i>COR III</i>	<i>BIO 480 (3)</i>	1	<i>*If completing minor, talk to your advisor about how best to exchange courses throughout semesters</i>		
<i>Gen Ed</i>	<i>(Select: A, C, H, or R with D,E,G,Q)</i>	3			
<i>Gen Ed</i>	<i>(Select: C, H, or R with D,E,G,Q)</i>	4			
<i>*Apply for internship by December 1</i>					
Total Credits		17			

<sup>1</sup> Chemistry 120 or 110 can be started at any time depending on math placement.

<sup>a</sup> Medical Law requirement for UW HEALTH fulfilled by PHIL 442 or RS 442. Only post baccalaureate students should take RS 442 (R).

The courses listed above in italics are part of Edgewood College general education requirements. The students apply to the School of Diagnostic Medical Sonography in the Fall semester of their junior year at the University of Wisconsin Health (UW Health). The UW Health internship is a very competitive program with excellent certification and employment success and this curriculum has been designed to specifically improve Edgewood College students' likelihood of acceptance. Interested students should seek advice from their major advisor as to how to improve their chances of admission to the UW Health program. The students will interview around the time of spring break in their junior year, and if accepted, they will continue their education at UW Health in their final 2 years. If the students are not accepted into the program, the students can wait to the following December to reapply or work toward graduating with a biology major. The students who become Biology majors will have enough time to complete the remaining required research requirement and courses for the Biology major (BIO 151, 353, 401, 402, 480) and one of the following courses (BIO 206, 275, 333, 430, or 450) in their fourth year at Edgewood College.

#### Additional Requirements:

- Students are required to be registered Nurse Aide (formerly CNA) and certified as a Health-Care Provider CPR (expired CPR certification is acceptable). Students are recommended to complete their CNA certification in their Freshman year so that they can use this certification to gain clinical practice experience.
- UW Health requires 100 hours of patient care is required prior to acceptance in the UW Health program. Experience caring for the sick is beneficial in that it prepares you for clinical practice. Patient care experience can be obtained through work in nursing homes, hospitals, clinics including urgent care, and trauma and rehabilitation centers.
- Students are required to shadow a sonographer for a minimum of 4-8 hours prior to the December 1<sup>st</sup> application to UW Health. Please talk to your major advisor to request a shadowing experience through UW Health. Students are encouraged to shadow general sonography, echocardiography, and radiography to make an informed decision and to facilitate a clear understanding of the differences between fields.
- Students are required to have an overall GPA of 3.0 on a 4-point scale for all pre-professional coursework. In addition, a minimum of "C" grade must be earned in each prerequisite courses, which includes several courses listed above except for courses listed as "COR or Gen Ed".

- To maximize your acceptance into the clinical internship, students should have their Nurse Aide and CPR certification, minimum 100 hours of patient care experience, and shadowing hours completed prior to your application to UW HEALTH. All pre-internship classes need to be completed prior to beginning the clinical internship at UW Health.

### **UW Health Curriculum for Sonography Internship**

Students have the option of receiving training to two areas of sonography: general sonography and echocardiography. After the interview for the UW Health internship, students must choose one of these two options. The curricula for both options is included below.

<b>UW Health Curriculum for <u>General Sonography</u></b>			
<b>FALL – Year 1</b>		<b>SPRING – Year 1</b>	
C L SCI 310 Intro to Diagnostic Medical Sonography	3	C L SCI 312 Abdominal Sonography II	3
C L SCI 311 Abdominal Sonography I	3	C L SCI 321 Ob/Gyn Sonography II	3
C L SCI 313 Clinical Education I	3	C L SCI 323 Sonographic Physics & Instrumentation	3
C L SCI 320 Ob/Gyn Sonography I	3	C L SCI 324 Clinical Education II	3
C L SCI 450 Vascular Sonography I	3	C L SCI 451 Vascular Sonography II	5
Total Credits	15	Total Credits	15

<b>UW Health Curriculum for <u>General Sonography</u> - Summer year 1</b>	
C L SCI 322 Ob/Gyn Sonography III	3
C L SCI 325 Specialized Sonography	3
C L SCI 326 Clinical Education III	3
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<b>UW Health Curriculum for <u>General Sonography</u></b>			
<b>FALL – Year 2</b>		<b>SPRING – Year 2</b>	
C L SCI 319 Abdominal Sonography III	2	C L SCI 457 Clinical Education V	4
C L SCI 402 Intro to Fetal Echocardiography	1	C L SCI 458 Seminar in Advanced Medical Imaging	3
C L SCI 452 Clinical Education IV	3	C L SCI 460 Seminar in Professional Development	3
C L SCI 453 Seminar in Ob/Gyn	3	C L SCI 463 Seminar-Management & Education	3
C L SCI 454 Intro to Fetal Echocardiography	3		
CLSCI 455 Vascular Sonography III	3		
Total Credits	15	Total Credits	13

<b>UW Health Curriculum for <u>General Sonography</u> - Summer year 2</b>	
C L SCI 461 Clinical Education VI	3
C L SCI 464 Intro Neurosonography	3
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<b>UW Health Curriculum for <u>Echocardiography</u></b>			
<b>FALL – Year 1</b>		<b>SPRING – Year 1</b>	
C L SCI 310 Intro to Diagnostic Medical Sonography	3	C L SCI 340 Embryology of the Heart	2
C L SCI 454 Intro to Fetal Echocardiography	3	C L SCI 341 Adult Echo-Valvular Heart Disease	3
C L SCI 337 Clinical Education I	3	C L SCI 323 Sonographic Physics & Instrumentation	3
C L SCI 320 Cardiovascular Principles	4	C L SCI 342 Clinical Education II	3
C L SCI 450 Vascular Sonography I	3	C L SCI 451 Vascular Sonography II	5
Total Credits	16	Total Credits	14

<b>UW Health Curriculum for <u>Echocardiography</u> - Summer year 1</b>	
C L SCI 345 Pediatric Echocardiography I	3
C L SCI 346 Adult Echo Cardiomyopathies	3
C L SCI 347 Clinical Education III	3
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<b>UW Health Curriculum for <u>Echocardiography</u></b>			
<b>FALL – Year 2</b>		<b>SPRING – Year 2</b>	
C L SCI 435 Adult Echo-Advanced Pathology	3	C L SCI 457 Clinical Education V	4
C L SCI 436 Pediatric Echocardiography II	3	C L SCI 458 Seminar in Advanced Medical Imaging	3
C L SCI 438 Clinical Education IV	3	C L SCI 460 Seminar in Professional Development	3
C L SCI 437 Stress Echocardiography	3	C L SCI 463 Seminar-Management & Education	3
CLSCI 455 Vascular Sonography III	3		
Total Credits	15	Total Credits	13

<b>UW Health Curriculum for <u>Echocardiography</u> - Summer year 2</b>	
C L SCI 440 Clinical Education VI	3
C L SCI 441 Special Procedures in Echocardiography	3
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Notice: Upon acceptance to the program all students must submit to criminal background checks, drug screening and a physical exam. Failure or refusal to submit to the required testing will result in an incomplete application. Incomplete applications are not considered for acceptance into the program. If the results of the drug screen show a positive level of any non-prescribed controlled substance, the individual will be deemed unqualified for placement and the offer rescinded. All license and registry agencies have eligibility standards for their applicants. These standards address the question of an applicant's conviction of a felony or misdemeanor. The student is responsible for ensuring their license / registry eligibility. If you have any questions regarding your eligibility, contact the American Registry of Diagnostic Medical Sonographers – [www.ardms.org](http://www.ardms.org)

*For more information about this major and the School of Diagnostic Medical Sonography at the University of Wisconsin Health, please visit <http://biology.edgewood.edu/Academics/Pre-Health-Pathways/Pre-Medical-Sonography>*

*Questions about the Medical Science Major? Please contact Drs. Brenda del Moral or Peter Kuhn, Biological Sciences Department, School of Arts and Sciences, [BdelMoral@edgewood.edu](mailto:BdelMoral@edgewood.edu) (608-663-4283) or [PKuhn@edgewood.edu](mailto:PKuhn@edgewood.edu) (608-663-6998).*