

## Certificate Programs

The purpose of a graduate certificate is to enhance marketability of students, confirm special skills or knowledge acquired by students, and provide educational opportunities and continuing education to otherwise unserved segments of the community through short-term graduate programs. The certificate program is designed to provide a certification of specialization to individuals who already possess a bachelor's degree. While a certificate does not lead to a degree, one-half of the certificate hours, up to a maximum of 15 hours, can be counted toward a graduate degree program. All students must be admitted to the Graduate School and make formal application to the particular certificate program.

Certificate programs have been approved for the following:

### Certificate in Substance Use Disorders and Behavioral Addictions

The Post-Baccalaureate Certificate in Substance Use Disorders and Behavioral Addictions, housed in the Rehabilitation Counseling and Administration Program in the Rehabilitation Institute, is open to graduate students interested in developing proficiency in specialized counseling skills for work in treatment and other settings as a substance use disorders and behavioral addictions counselor. Students must complete 15 credits of required coursework in addition to an academic discipline-based 500 hour internship (eight credits). Didactic courses include REHB 461, 471, 558, 566, and one approved elective.

For more information, contact:

Dr. Jane Nichols, Ph.D., NCC, LCPC, CRC  
Rehabilitation Counseling and Administration Program  
Southern Illinois University  
Rehn Hall, Mail Code 4609, 1025 Lincoln Dr.  
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### Certificate in Anatomy

The purpose of the anatomy certificate is to allow graduate students to become proficient in anatomy teaching. This will allow them to compete more effectively for jobs in this field. Students are eligible for the anatomy certificate if they are in an existing anatomically-based master's or Ph.D. program (e.g. Physiology, Anthropology, or Zoology). Additional prerequisites (e.g., embryology, basic vertebrate anatomy) are preferred. Students lacking such prerequisites will be encouraged to obtain them prior to admission into the anatomy certificate program. The Graduate Program Committee of the Department of Physiology will review all applications. In addition to graduate coursework in anatomy, students in the anatomy certificate program will obtain experience teaching gross anatomy to undergraduates and medical students. A minimum of 17-18 graduate credit hours are required for fulfillment of the certificate requirements. They are: Advanced Human Anatomy, (PHSL 401A, B, 10 hours), Vertebrate Histology, (ZOOL 409, four hours) and either Neuroanatomy, (PHSL 573, three hours) or Vertebrate Anatomy Lab, (ZOOL 418, three hours). Where appropriate, these courses may also count for credit toward the master's or Ph.D. degree. The Graduate Program Committee in the Department and the student's advisory committee will

make recommendations for other coursework and oversee the student's progress. Students supported by assistantships will have the same teaching obligations as all other departmentally supported students. Students will be required to teach at least two semesters of gross anatomy assisting Physiology and Anatomy Department faculty in the Medical School.

For more information, contact:

Director of Graduate Studies  
Department of Physiology, School of Medicine  
Southern Illinois University  
Carbondale, IL 62901-6512  
Telephone: 618/453-1544  
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Website: physiology.siu.edu

### Certificate in Art History

The Graduate Certificate in Art History will enable students to develop a broad knowledge of the history of art, become familiar with the discipline's methodology, and acquire skills necessary for teaching art history. It is open to students who have completed a bachelor's degree. The student must be currently enrolled in a graduate degree program at SIUC or an individual holding a bachelor's degree and admitted to the Graduate School (non-declared). Students enrolled in the MFA program offered through the School of Art and Design may enroll concurrently in the certificate program and apply part of their MFA art history coursework towards both degrees. The program requires students to complete 21 credit hours of graduate level art history coursework, including a teaching practicum, and to pass a comprehensive qualifying exam designed to assess general knowledge of art history.

For more information, contact:

Mont Allen, Art History Graduate Coordinator  
School of Art and Design  
Southern Illinois University  
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Carbondale, IL 62901  
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### Certificate in Civil Society, Communication, and Media Practices

The Certificate in Civil Society, Communication, and Media Practices offers students a critical, historical, and theoretical understanding of the significance of communication and media within the broader context of contemporary practices engaged in organizing public and social change. Students will learn to analyze these media practices in their various forms and contexts, from the local to the global, and the complex relationships they navigate with political and social movements, governments, and more mainstream forms, such as entertainment. Our curriculum emphasizes theory and practice and introduces students to a variety of media practices, including research methodologies based in the media arts. The certificate prepares graduates for leading, evaluating, and collaborating in communication efforts aimed at social change. Graduate students will have a broad understanding of the civic potential of media and be prepared to communicate with, promote, and participate in grassroots communities in the age of social media.

For more information, contact:

MCMA Graduate Studies Administrative Aide  
College of Mass Communication and Media Arts  
Southern Illinois University  
Mail Code 6606  
Carbondale, IL 62901  
Telephone: 618/453-3785  
email: mcmagrad@siu.edu

### **Certificate in Earth Science**

The Certificate in Earth Science with an optional concentration in Geospatial Analysis or Environmental Geology is open to post baccalaureate students with degrees in earth science, geology, or related fields. It is intended to expand the knowledge, skills, and specialized training in geological topics. The coursework will include eighteen (18) graduate credit hours in Geology. While there are no specific courses required, the courses taken will be determined by the student and the departmental Coordinating Committee.

For more information, contact:

James Conder, Graduate Program Coordinator  
Department of Geology  
Southern Illinois University  
Mail Code 4324  
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Telephone: 618/453-7352 or 453-3351  
email: conder@geo.siu.edu or geology@geo.siu.edu

### **Certificate in Gerontology**

The Graduate Certificate in Gerontology is open to post-bachelor level students who are interested in the area of gerontology. It is designed to provide knowledge, skills, and specialized training in programs and services for older persons. The certificate includes core courses on aging in the following areas: social work, rehabilitation, health, exercise and education. Courses within the certification program will include, but not be limited to: policy and program issues, psychosocial issues and health and fitness issues. The coursework also includes a practicum in an agency suitable to the individual's interest OR research project. Students must complete 18 semester hours of study including a minimum of three hours of practicum/research, to earn the certificate.

For more information, contact:

Dr. Phil Anton Coordinator,  
Certificate in Gerontology  
College of Education and Human Services  
Southern Illinois University  
Mail Code 4310  
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email: panton@siu.edu

### **Certificate in GIS**

The Graduate GIS Certificate enables students to focus on advanced geospatial techniques and analytical skills. This certificate meets the needs of the expanding job opportunities for Master's and Ph.D. students. This certificate ensures that the students understand advanced mapping technologies; know how to combine individual models and functions in ArcGIS to carry out a complicated spatial analysis task; master advanced

digital image processing and analysis technologies; and obtain competence in designing, developing, and managing spatial databases. Further, they will demonstrate an understanding of GIS's relationships with remote sensing, global positioning system, (GPS), mathematics, statistics, and other sciences and obtain capacity in integrating multi-disciplinary methods for problem-solving. Finally, they will be competent in planning, developing, and implementing a complex GIS project. Students must be admitted to an SIU graduate program or the SIU non-declared graduate program and maintain a 3.0 GPA in the certification courses. The program requires students to complete 18 credit hours of graduate level coursework from the following: GEOG 502(3) – Geographic Information Systems; GEOG 504(3) – Spatial Analysis; GEOG 506(3) – Intro to Remote Sensing; GEOG 508(3) – Advanced Remote Sensing; GEOG 520(3) – Advanced GIS Studies; GEOG 528(3) – GIS Portfolio/GIS Capstone Project.

For more information, contact:

Dr. Guangxing Wang, Coordinator,  
Graduate Certificate in GIS  
Department of Geography and Environmental Resources  
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email: gxwang@siu.edu or geog@siu.edu

### **Certificate in Magnetic Resonance Imaging**

The Post Baccalaureate Certificate in Magnetic Resonance Imaging (MRI) is housed in the Radiologic Sciences Program within the School of Allied Health. This certificate will allow MRI technologists to obtain didactic and clinical experiences in advanced areas of MRI. The program requires 18 credit hours of coursework. This includes at least one 3 credit hour didactic course selected from RAD 444, 454, and 464. Elective courses include RAD 474, 484, and 494. Students enrolled in the certificate in MRI Program will be able to develop a course of study which is tailored to meet their specific needs.

For more information, contact:

Dr. Michael L. Grey, Ph.D., RT(R)(MR)(CT)  
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Radiologic Sciences  
School of Allied health  
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### **Certificate in Quantitative Methods**

The Graduate Certificate in Quantitative Methods (QM) is designed to provide advanced training in quantitative methods for graduate students majoring in other programs. This certificate requires a minimum of 24 graduate credit hours. A total of nine credits of QM courses may also count for credit toward a graduate degree program, as appropriately and jointly determined (as needed) by the QM Graduate Certificate Program faculty, the office of the Dean of COEHS, the Graduate School, the office of the Provost, and any particular graduate

program advisory committee associated for a student. Further, the student must be currently enrolled in the Quantitative Methods Concentration, however are not eligible to earn this certificate. The certificate requires 18 credit hours in core courses: QUAN 506- Inferential Statistics (4), QUAN 507- Multiple Regression (4), QUAN 508- Experimental Design (4), QUAN 531- Principles of Measurement (3), and QUAN 533- Survey Research Methods (3) and a minimum of six credit hours in QUAN 580A-I- Selected Topics (2-4).

For more information, contact:

Dr. Yanyan Sheng, Coordinator  
Quantitative Methods  
Department of Counseling, Quantitative Methods, and  
Special Education  
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### **Certificate in Sustainability**

The Graduate Certificate in Sustainability enables students to expand their knowledge and understanding of the long-term sustainable use of the earth's resources, including water, land use and food systems, climate change, urban sustainability, and "green" energy. This certificate meets the needs of the expanding job opportunities in environmental sustainability. Students must be admitted to an SIU graduate program or the SIU non-declared graduate program and must maintain a 3.0 GPA in the certification courses. The program requires students to complete 18 credit hours of graduate level coursework, as follows: GEOG 524(3) – Sustainable Development and a total of 15 or more credit hours from the following: GEOG 521(3) – Urban Sustainability; GEOG 522(3) – Environmental and Energy Economics; GEOG 526(3) – US Environmental Policy; GEOG 529(3) – Geography of Local and Organic Food; GEOG 531(3) – Climatology; GEOG 536(3) – Natural Hazards; GEOG 539(3) – Global Climate Change; GEOG 554(3) – Conservation and Environmental Movements.

For more information, contact:

Dr. Leslie Duram, Coordinator,  
Graduate Certificate in Sustainability  
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### **Certificate in Women, Gender and Sexuality Studies**

The purpose of the graduate certificate in Women, Gender and Sexuality Studies is to meet the demand for formal recognition of graduate level credentials in WGSS, and to enhance and broaden the perspectives of graduate students from various related fields. The program requires 18 hours of coursework. Nine hours must be at the 500-level, which includes WGSS 590. Nine hours must be taken outside the student's major discipline. The student must be currently enrolled in a graduate degree program at SIU or an individual holding a bachelor's degree and admitted to the Graduate School (non-declared).

For more information, contact:

Dr. Barbara Bickel, Director  
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