Twin Cities Campus
Addiction Studies Postbaccalaureate Certificate
CCE Addiction Studies
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
Addiction Studies, Degree and Certificate Programs, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108 (612-624-4000; fax: 612-625-1511)
Email: cceinfo@umn.edu
Website: http://www.cce.umn.edu/Addiction-Studies-Graduate-Certificate/index.html

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2011
- Length of program in credits: 19
- This program does not require summer semesters for timely completion.
- Degree: Addiction Studies PBacc Certificate

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The addiction studies graduate certificate provides students with a strong theoretical and practical foundation in substance abuse treatment modalities, counseling skills, professional and ethical responsibilities, and client advocacy. The program offers two track options: public health and service provider.

The curriculum is designed to meet the ongoing training and education needs of addiction counselors, social workers, psychologists, mental health practitioners, and prevention specialists. Students have the opportunity to develop and refine clinical skills and knowledge in addictive disorders in a multidisciplinary environment.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)
- partially online (between 50% to 80% of instruction is online)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

A bachelor's degree from an accredited post-secondary institution or its foreign equivalent.

Special Application Requirements:
Although students may take one or two program courses before applying for official admission into the certificate program, the program recommends that students apply for admission as soon as possible. Once accepted into the program, students will receive timely program updates and course registration information along with admitted student benefits.

Applying for the program is easy. Simply complete the Post-Baccalaureate Application for Certificate Admission form. The application form includes instructions, deadlines, and materials needed to apply. Students who have questions or who miss the deadline may call 612-624-4000 or send an email to cceinfo@umn.edu for advising.

Application Deadlines
Fall semester: July 15
Spring semester: November 15
Summer term: April 15

Note: Students who have graduated from a B.A. or B.S. program must apply for the graduate-level certificate.

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.
Program Requirements
Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 2.8 is required for students to remain in good standing.

To be awarded the Addiction Studies Certificate, students must:
- complete a minimum of 19 credits within four years of their admission date;
- take core courses for a letter grade, earning a B- or better;
- obtain a cumulative GPA of 2.8 or better for all certificate coursework.

Program Sub-plans
Students are required to complete one of the following sub-plans. Students may not complete the program with more than one sub-plan.

Public Health
The public health track allows students to specialize in the epidemiology of various addictive behaviors and disorders, particularly substance use behaviors, and to gain an understanding of the various models and promising prevention approaches.

Public Health Core Courses (11 credits)
ADDS 5009 - Multicultural Aspects of Addiction (2 cr)
or
FSOS 5426 - Alcohol and Drugs: Families and Culture (3 cr)
ADDS 5003 - Applied Psychopharmacology for Human Service Professionals (2 cr)
(Note: Students are recommended to take ADDS 5001 and FSOS 5426 before ADDS 5003.)
ADDS 5004 - Co-occurring Addictive and Mental Health Disorders (2 cr)
(Note: Students are recommended to take ADDS 5004 after ADDS 5001 and ADDS 5003.)
PUBH 6724 - The Health Care System and Public Health (3 cr)
PUBH 6003 - Fundamentals of Alcohol and Drug Abuse (1 cr)
(Note: Students must inform the teaching assistant for the course that they are addiction studies certificate students in order to get the assignments that are related to the certificate program.)

Elective Courses (8 credits)
Students should check with their advisers to determine the appropriate electives for their program of choice.

Service Provider
This clinical track offers training and education for two distinct audiences: currently licensed professionals, and those seeking licensure.

Currently Licensed Professionals
This option is for currently licensed professionals who wish to develop advanced counseling and therapy skills in order to work with individuals who have addictive disorders, to learn advanced intervention techniques, or to improve clinical skills for specialized populations.

Individuals currently licensed as addiction counselors can select a special area of interest for intensive study that best fits with their career plans. Some emphasis areas are:
- Aging and addiction
- Adolescents and addiction
- Integrative approaches to behavioral health
- Multicultural issues and addiction
- Prevention

Students may also work with an adviser to design an individual plan of study that best meets their personal interests and career development goals.

Licensure-Seeking Service Provider
This option is for individuals with a bachelor's degree and for professionals with a related license (LMSW, MSW, LMFT, LP, LPCC, LPC, MD) who are interested in becoming licensed alcohol and drug counselors. The core curriculum prepares students for the Minnesota Licensed Alcohol and Drug (MLADC) comprehensive exam and to become credentialed as a Board Certified Counselor (BCC).

Licensure-Seeking Service Provider Requirements
Core Courses (9 credits)
ADDS 5001 - Foundations in Addiction Studies (2 cr; to be taken first semester)
ADDS 5003 - Applied Psychopharmacology for Human Service Professionals (2 cr)
ADDS 5004 - Co-Occurring Addictive and Mental Health Disorders (2 cr)
ADDS 5009 - Multicultural Aspects of Addiction Studies (3 cr)
or
FSOS 5426 - Alcohol and Drugs: Families and Culture (3 cr)

Elective Courses (10 credits)
EPSY 5401 - Counseling Procedures (3 cr)
FSOS 5429 - Advanced Counseling Skills (3 cr)
(Students are recommended to take EPSY 5401 before FSOS 5429 and ADDS 5008.)
ADDS 5002 - Methods, Models, and Intervention Skills for Substance Abuse Counselors (2 cr)
ADDS 5006 - Introduction to Resilience and Health Realization (2 cr)
ADDS 5007 - Adolescents and Addiction (2 cr)

Minnesota Licensed Alcohol and Drug Counselor Requirements

To fulfill the educational requirements and be eligible for licensure, students must complete the following courses:
ADDS 4001 - Professional Practice of Addictions Counseling (4 cr)
ADDS 4002 - Internship I (2-8 cr)

Students must have the content in the courses listed below in order to meet the 12 core functions specified by the Minnesota statute's licensing requirements. Some of these courses are core courses. Others may be taken as electives if students haven't taken them previously.
ADDS 5001 - Foundations in Addiction Studies (2 cr)
or
PUBH 6003 - Fundamentals of Alcohol and Drug Abuse (1 cr)
ADDS 5002 - Methods, Models, and Intervention Skills for Substance Abuse Counselors (2 cr)
or
FSOS 5429 - Counseling Skills Practicum (3 cr)
ADDS 5003 - Applied Psychopharmacology for Human Service Professionals (2 cr)
ADDS 5004 - Co-occurring Addictive and Mental Health Disorders (2 cr)
ADDS 5009 - Multicultural Aspects of Addiction (2 cr)
or
FSOS 5426 - Alcohol and Drugs: Families and Culture (3 cr)

Internship Experience
The internship experience will provide students with the opportunity to transfer the knowledge and skills gained in the academic portion of the service provider certificate to clinical practice. Students should keep the following key points in mind:
-Students may enroll for the internship sequence after the academic portion is completed.
-The Professional Practice of Addictions Counseling course is a required prerequisite for the internship sequence and should be taken during the semester prior to registering for internship.
-Internships are planned as part of the Professional Practice course and must be approved by addiction studies faculty.
-According to the Minnesota Certificate Board (MCB), the written exam for the MLADC licensure can be taken while the student is completing the internship. However, students may not take the oral exam until all studies, including the internship, have been completed.
-Students should review the Internship Manual before or during their first class in the certificate program.
Twin Cities Campus
Arts and Cultural Leadership M.P.S.
CCE Graduate Programs Instruction
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
College of Continuing Education, M.P.S. in Arts and Cultural Leadership, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108
(612-624-4000; fax: 612-626-2800)
Email: cceacl@umn.edu
Website: http://www.cce.umn.edu/acl

- Program Type: Master's
- Requirements for this program are current for Fall 2011
- Length of program in credits: 32
- This program does not require summer semesters for timely completion.
- Degree: Master of Professional Studies

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

This program prepares students for both administrative and leadership roles in professional leadership of arts-related nonprofit organizations. It is aimed at career arts administrators in nonprofit arts and cultural organizations looking for a graduate degree to boost their advancement in the field and/or to interact with other students/faculty in discussing artistic leadership, planning, and policy. It is available to career administrators working in fields not directly related to the arts, but who want new careers in arts-related nonprofit organizations.

The program of study leads to a master's degree that is: individualized, allowing students to tailor electives and a capstone project to their unique interests; interdisciplinary, including required interdisciplinary seminars and elective coursework drawn from two or more academic departments at the University; and career focused, with a capstone project centered on an issue or topic expressly related to the student's career interest.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

To be admitted, students must have a bachelor's degree from an accredited post-secondary U.S. institution or its foreign equivalent.

At least 3 years of relevant work experience is required. Factors of academic preparation, relevant experience, evidence of readiness and maturity, writing ability, and reasons for seeking the degree will be taken into account as part of the admissions review. GRE scores may be submitted, but are not required.

Special Application Requirements:
The application package must include official transcripts of all baccalaureate and post-baccalaureate work, a current resume, two letters of reference, a two- to three-page written statement of purpose in which the student elaborates on his or her interest in the program, and an additional writing sample of approximately 10 pages. Application deadlines are in spring for summer term and fall semester admission, and fall for spring semester admission. Please refer to the program website for further details.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550
- IELTS
  - Total Score: 6.5
- MELAB
Program Requirements

Plan B: Plan B requires 32 major credits and null credits outside the major. The final exam is written and oral. A capstone project is required.

Capstone Project: The Final Project Seminar (APS 8002) is designed to help students bring their respective projects/papers to closure. There are two paths to completing final project/paper:
1. A field-based project undertaken within a specific organization. The student will be supervised by both their faculty adviser and a field site supervisor who will serve as co-adviser. (Preferred.)
2. Thesis-length papers (50-80 pages) will be written under supervision of the student's adviser, and should integrate skills and knowledge acquired in the program. The papers should investigate or illuminate an area of knowledge within the study of leadership, as it pertains to the arts and cultural sector. (Students who are considering this option should meet with the faculty director.)

This program may be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum of 32 credits are required for completion of the MPS degree. Take core courses for a letter grade, earning a B- or better. Obtain a cumulative GPA for all degree course work of 2.8 or better.

Required courses (14 credits)

- APS 8001 - Introduction to Interdisciplinary Inquiry (3.0 cr)
- ACL 5200 - Trends and Impacts in Arts and Cultural Leadership (3.0 cr)
- ACL 5220 - Philanthropy, Development, and Strategic Leadership (3.0 cr)
- ACL 5230 - Ethical and Legal Issues in Arts Policy and Law (3.0 cr)
- ACL 8201 - Mentorship/Project Leadership Practicum (1.0 cr)
- ACL 8202 - Arts and Cultural Nonprofit Board Practicum (1.0 cr)
- APS 8002 Final Project Seminar

Selected applications courses (6 credits)

- Required: At least two of the following courses with selection based on prior experiences. PA 5003 - Introduction to Financial Analysis and Management is required for students without significant experience in this area. Take 2 or more course(s) totaling 6 or more credits(s) from the following:
  - PA 5011 - Management of Organizations (3.0 cr)
  - PA 5101 - Management and Governance of Nonprofit Organizations (3.0 cr)
  - PA 5104 - Strategic Human Resource Management (3.0 cr)
  - PA 5003 - Introduction to Financial Analysis and Management (1.5 cr)
  - PA 5111 - Financial Management in Public and Nonprofit Organizations (3.0 cr)
  - PA 5251 - Strategic Planning and Management (3.0 cr)
  - PA 5103 - Leadership and Change in an Innovation Society (3.0 cr)

Electives (9 credits)

Elective courses must be selected from two or more academic departments. Studio or applied courses, such as a course in painting or piano, may not be included as electives. Electives should relate to the professional tasks required of arts leaders or enhance student's understanding of the arts within a broader cultural context. Examples include, but are not limited to the courses listed below. Take 9 or more credits(s) from the following:

- ACL 5950 - Special Topics (1.0 - 4.0 cr)
- TH 5780 - Advanced Topics in Arts Management (2.0 - 4.0 cr)
- LS 5100 - Liberal Studies Seminar (1.0 - 4.0 cr)
- JOUR 4263 - Strategic Communication Campaigns (4.0 cr)
- JOUR 5251 - Psychology of Advertising (3.0 cr)
- MST 5011 - Museum History and Philosophy (3.0 cr)
- MST 5012 - Museum Practices (3.0 cr)
- Other electives chosen in consultation with student's adviser.
Twin Cities Campus
Biological Science M.B.S.
CCE Graduate Programs Instruction
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
College of Continuing Education, Master of Biological Science Program, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108 (612-624-4000; fax: 612-626-2800)
Email: cceembs@umn.edu
Website: http://www.cce.umn.edu/mbs

- Program Type: Master's
- Requirements for this program are current for Fall 2011
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Biological Science

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The professional master of biological science (M.B.S.) degree is offered with concentrations in areas such as biochemistry, basic biology (animal, plant, cell, applied, and general), biotechnology, biophysics, ecology, environment, evolution, food science and nutrition, genetics, microbiology, molecular biology, and neuroscience. This is an interdisciplinary program administered by the College of Continuing Education. The M.B.S. is a highly flexible, graduate-level, practitioner-based program offered to meet the needs of a substantial portion of the working community who wish or need to increase their knowledge in areas related to modern biology. The program provides educational opportunities beyond those that aim at maintaining and improving productivity within the professions. It fills a gap in the present educational system for those who have neither the time nor the flexibility to earn a graduate degree through more traditional channels. It also provides this population with the most current information and advanced skills in their areas of professional interest, and gives them acknowledgment for their achievement. The degree enables recipients to learn new job skills, change professional emphasis, or provide added value to their present job.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

To be admitted, students must have a bachelor's degree from an accredited post-secondary U.S. institution or its foreign equivalent.

Evidence of knowledge of current, introductory, college-level concepts of basic chemistry, organic chemistry, and some biology coursework is required. Transcripts showing equivalent coursework combined with professional experience will be considered for application toward fulfillment of the prerequisites for admission. Two years of relevant experience in the workforce is required for admission. GRE scores may also be submitted, but are not required.

Special Application Requirements:
A statement of career goals, letters of reference, transcripts for all undergraduate and post-baccalaureate degrees or coursework, and an updated resume must accompany the application. Application deadlines are in the spring for summer term and fall semester admission, and in the fall for spring semester admission. Please refer to the program website for further details.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550
- IELTS
  - Total Score: 6.5
- MELAB
Key to test abbreviations (TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements

Plan C: Plan C requires 30 major credits and null credits outside the major. The final exam is written and oral. A capstone project is required.

Capstone Project: The capstone project is worth 2 semester credits toward the degree. The capstone project may be, but is not limited to, a research paper, a laboratory project, or a practicum.

This program may be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 3.00 is required for students to remain in good standing.

The program includes coursework, seminars, independent study, workshops, and a capstone project. With guidance from faculty advisers, students complete 30 credits. M.B.S. candidates may transfer up to 10 credits into the program. Core credits may be waived or substituted if the student can show proficiency in the subject area, pending advisory committee approval. If a core credit is waived, the credits must still be earned in an elective course. Coursework is taken from the regular graduate-level coursework as well as from other approved credit-bearing courses (e.g., intensive short courses and Internet courses). An overall GPA of 3.00 is preferred for the degree to be awarded. A student with 8 or more credits of incomplete (I) coursework will not be allowed to register for additional courses until the coursework marked with (I) is completed.
Twin Cities Campus

Biological Science Minor

CCE Graduate Programs Instruction

College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
College of Continuing Education, Master of Biological Science Program, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108 (612-624-4000, fax: 612-626-2800)
Email: ccembs@umn.edu
Website: http://www.cce.umn.edu/mbs

- Program Type: Graduate minor related to major
- Requirements for this program are current for Fall 2011
- Length of program in credits (Masters): 6
- This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

Note: This program is not currently accepting students. Please contact the College of Continuing Education for more information about the status of this program.

A minor in biological science offers concentrations in areas such as biochemistry, basic biology (animal, plant, cell, applied, and general), biotechnology, biophysics, ecology, environment, evolution, food science and nutrition, genetics, microbiology, molecular biology, and neuroscience. This is an interdisciplinary program administered by the College of Continuing Education. The program is a highly flexible graduate-level, practitioner-based program offered to meet the needs of a substantial portion of the working community who wish or need to increase their knowledge in areas related to modern biology. The program provides educational opportunities beyond those that aim at maintaining and improving productivity within the professions. Together with the College of Continuing Education's master of biological sciences program, this minor fills a gap in the present educational system for those who have neither the time nor the flexibility to pursue graduate coursework through more traditional channels. It also provides this population with the most current information and advanced skills in their areas of professional interest, and gives them acknowledgment for their achievement. The degree enables recipients to learn new job skills, change professional emphasis, or provide added value to their present job.

Program Delivery

This program is available:
- via classroom (the majority of instruction is face-to-face)

Program Requirements

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.
Twin Cities Campus
Horticulture M.P.S.
CCE Graduate Programs Instruction
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
Email: www.cce.umn.edu/hort
Website: http://www.cce.umn.edu/Master-of-Professional-Studies-in-Horticulture

- Program Type: Master's
- Requirements for this program are current for Fall 2011
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Professional Studies

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The master of professional studies in horticulture degree is designed to enhance the capacity of those currently working in the horticulture industry; and to provide the knowledge base needed by others interested in beginning new careers, starting their own business, or pursuing personal interests in horticulture. The degree provides a solid foundation of contemporary horticultural knowledge, yet is flexible enough to allow individuals to focus on the specific skills they wish to hone.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 2.80.

To be admitted, students must have a bachelor's degree from an accredited post-secondary U.S. institution or its foreign equivalent.

Evidence of knowledge of current, introductory, college-level concepts of algebra, chemistry, biology, botany, or plant propagation is required for admission to the program. Prerequisite coursework may be completed at the University of Minnesota or at other educational institutions subject to transfer review. In all cases, documentation of completed, equivalent coursework combined with professional experience will be considered for application toward fulfillment of the prerequisites for admission to the M.P.S. in horticulture. A minimum grade of C will be the standard for admission for all prerequisite coursework. Undergraduate prerequisite coursework must come from the following areas: algebra, chemistry, biology, botany, or plant propagation. Please refer to the program website for further details.

Special Application Requirements:
The application package must include official transcripts of all baccalaureate and post-baccalaureate work, a current resume, two letters of reference, a written statement of purpose (max two pages) which addresses pertinent aspects of the student's background and academic qualifications as related to admission to the program and demonstrates a strong interest in horticultural science including documentation of any relevant experiences in the field of horticulture. Application deadlines are in spring for summer term and fall semester admission, and in fall for spring semester admission. Refer to the program website for further details.

International applicants must submit score(s) from one of the following tests:

- TOEFL
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550
- IELTS
  - Total Score: 6.5
- MELAB
  - Final score: 80
Key to test abbreviations (TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements

Plan C: Plan C requires 30 major credits and null credits outside the major. There is no final exam. A capstone project is required.

Capstone Project: The capstone course, HORT 6002 - Problem Solving in Horticulture, accounts for 4 of the minimum 30 credits required for the degree and is not considered part of the horticulture core course requirements.

This program may not be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 2.8 is required for students to remain in good standing.

The course program must include a minimum of 30 semester credits in courses 4xxx or above, with a minimum of 15 credits in 5xxx or higher courses. Courses must include 15 credits of horticulture courses, 11 credits in a related field, and 4 credits of HORT 6002 - Capstone.

Students who have not completed relevant introductory coursework in soils, plant pathology, and entomology, either during or subsequent to completion of their bachelor's degree, will be required to complete courses in these areas as part of their MPS degree requirements. These courses are not prerequisites for admission. Depending on the specific courses included in the student's program, some additional coursework may also be required over and above the 30 graduate credits required for the degree.

All prerequisites associated with courses included in the student's course program must be completed as part of the student's degree requirements unless exempted in writing by the instructor for the course and approved by the student's adviser and the program DGS prior to taking the course.

Excluding the capstone course, a maximum of 3 credits taken S/N may be applied toward the minimum requirements for the degree.

A maximum of 3 credits of HORT 5090 - Directed Studies may be applied toward the minimum horticulture core course requirements.

The student's course program must be approved by the DGS and MPS Steering Committee.

Only coursework for which the student has earned a grade of B- or better will be counted toward the minimum of 30 semester credits required for the degree.
Twin Cities Campus

Innovation Studies Postbaccalaureate Certificate

CCE Graduate Programs Instruction

College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
(612-624-4000; fax: 612-626-2800)
Email: cceis@umn.edu
Website: http://www.cce.umn.edu/is

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2011
- Length of program in credits: 16
- This program does not require summer semesters for timely completion.
- Degree: Innovation Studies Postbaccalaureate Certificate

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

This certificate is built on two premises: (1) that the economic order of the 21st century will be determined more by intellectual capital and knowledge worker productivity than by the traditional resources of labor, capital, and raw materials; and (2) that an individual’s success in the new economic order will be determined more by such personal characteristics as knowledge, inventiveness, adaptability, and self-reliance, than by the institutional structures and protections traditionally provided to workers by employers. Workers can no longer rely, in other words, on any established company or organization to provide secure, long-term employment. Today they are much more on their own, requiring them to develop new skills in self-leadership, self-marketing, and team formation.

These shifts are nothing less than revolutionary, propelled by ever-advancing information and communications technologies. Likewise, they will be sustained by educational systems geared to preparing human capital for continuous innovation. Associated implications for international and global cooperation, collaboration, and competitiveness will be addressed throughout the innovation studies certificate seminars.

The focus of the certificate in innovation studies will be the individual, with emphasis on developing the requisite insights and skills needed to support a shift from an institutional model to a self-reliance model that rewards innovative leadership and problem solving. The curriculum will draw on a broad, growing body of interdisciplinary literature that deals with such topics as the impact of accelerating change on the nature of work and social institutions, the expansion and globalization of business and industry, geo-political change, socio-cultural change, ecological/environmental issues, population issues, the evolution of technology, and adaptive human behavior.

Potential students for the certificate are adults with bachelor degrees or better who develop or innovate significant portions of their work, or who wish to learn the principles and general skills of doing so. These are knowledge workers whose professional life pivots on thought, collaboration, and decision making to help envision or produce new goods and services. Familiar job titles for this target audience include:
- Organizational planners and strategists
- Managers from both the private and public sectors
- Engineers and scientists seeking to develop commercially successful new products
- Teachers and consultants in both the public and private sectors
- Financial planners and analysts
- Entrepreneurs and “intrepreneurs,” in both profit and non-profit organizations

The program is beneficial to anyone wanting to be better aligned with the future in her or his current position or wishing to make a strategic, innovation-focused career change.

Program Delivery
This program is available:
- partially online (between 50% to 80% of instruction is online)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.
To be admitted, students must have a bachelor's degree from an accredited post-secondary U.S. institution or its foreign equivalent.

**Special Application Requirements:**
To be admitted, prospective students must show evidence that they are prepared to successfully undertake graduate-level work, and that they understand the nature of the program. Applicants must:
- hold a baccalaureate degree from an accredited college or university;
- submit transcripts from their undergraduate institution(s) and any subsequent credit coursework;
- submit a two-page statement of purpose that explains why this program is a good fit for them; and
- submit a current résumé, describing professional and lifework experiences.

Letters of reference from past or current employers and/or professors are optional.

International applicants must submit score(s) from one of the following tests:
- **TOEFL**
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550
- **IELTS**
  - Total Score: 6.5
- **MELAB**
  - Final score: 80

Key to test abbreviations (TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the [General Information](#) section of the catalog website.

**Program Requirements**
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

The certificate consists of at least 16 credits: 7 credits in two required core seminars and 9 credits in innovation studies electives. The core seminars include a 3-credit introductory course, IS 5001 - Introduction to Innovation Studies, which begins the certificate sequence; and a 4-credit capstone final project or internship, IS 5002, which concludes the program. Between the core seminars, students choose 9 credits of innovation studies seminars from a group of existing or prospective IS 5100 or IS 5950 topics seminars. These electives allow a student to focus on areas of innovation studies that offer the highest potential level of integration into his or her own educational and professional goals.
Integrated Behavioral Health M.P.S.
CCE Addiction Studies
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
College of Continuing Education Information Center, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN, 55108 (612-624-4000)
Email: cceinfo@umn.edu
Website: http://cce.umn.edu/Master-Of-Professional-Studies-In-Integrated-Behavioral-Health/index.html

• Program Type: Master's
• Requirements for this program are current for Spring 2013
• Length of program in credits: 60
• This program does not require summer semesters for timely completion.
• Degree: Master of Professional Studies

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The high prevalence of co-occurring mental health and substance use disorders virtually guarantees that counselors, no matter the treatment setting, will encounter clients struggling with not one, but two or more disorders.

The master of professional studies in integrated behavioral health (IBH) prepares counselors for this clinical reality. The IBH degree merges mental health and substance abuse education and training into a single, comprehensive and cohesive program. This synthesis represents an important and pioneering shift in the preparation of clinicians.

The IBH is designed to fulfill education and training requirements for two licenses: Licensed Professional Clinical Counselor (LPCC) and Licensed Alcohol and Drug Counselor (LADC).

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)
• partially online (between 50% to 80% of instruction is online)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

- Bachelor's degree from an accredited institution
- Transcripts
- Personal statement
- Two letters of reference
- Updated resume or CV

Special Application Requirements:
International students interested in the master of professional studies in integrated behavioral health should contact the International Student and Scholar Service (http://www.isss.umn.edu) for information on visa status and academic requirements.

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Plan C: Plan C requires 60 major credits and 0 credits outside the major. The is no final exam. A capstone project is required.

Capstone Project: Satisfactory completion of a portfolio demonstrates the student's clinical conceptualization and practice skills through the following:
- A client case study that includes an assessment and treatment plan
- A videotaped treatment session with a mock client
- A philosophy of counseling statement outlining the student's theoretical orientation to counseling and specific applications of his/her counseling philosophy to the population she/he intends to serve
- Evaluations outlining areas of competence and skill as assessed by internship site supervisor
- Self-selected papers and projects from program coursework that demonstrate the student's mastery of knowledge and skills

This program may not be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 2.8 is required for students to remain in good standing.

In addition to course work, an 880-hour field placement is required to complete the degree. The credit and field placement requirements are designed to fulfill licensing requirements as defined in the Minnesota Statutes, section 148B.54, subdivision 2; and Minnesota Rules, part 2150.2500 to 2150.2660. As noted in the statue, "The national trend for master's programs in counseling is towards 60 semester credits." In order for a practitioner to be eligible for third party reimbursement for services, the practitioner must demonstrate a minimum of 60 semester graduate level credits in counseling coursework.

Students may take one or more courses per term and have up to seven years to complete a master's degree. Students who wish to transfer graduate-level coursework from other institutions should contact the Graduate Programs office at cceinfo@umn.edu for information and assistance.

Only coursework for which the student has earned a grade of B- or better will be counted toward the minimum of 60 semester credits required for the degree.

**Core Courses**

- **ADDS 5011 - Foundations in Addiction Studies (2.0 cr)**
- **ADDS 5021 - Introduction to Evidence Based Practices and the Helping Relationship (2.0 cr)**
- **ADDS 5031 - Applied Psychopharmacology (2.0 cr)**
- **ADDS 5041 - Methods and Models I: Motivational Counseling (2.0 cr)**
- **ADDS 5051 - Methods and Models II: Cognitive Behavioral Therapy (2.0 cr)**
- **ADDS 5061 - Foundations of Group Work (3.0 cr)**
- **ADDS 5071 - Foundations of Co-occurring Disorders (2.0 cr)**
- **ADDS 5081 - Multicultural Foundations of Behavioral Health (3.0 cr)**
- **ADDS 5091 - Assessment and Treatment Planning I (3.0 cr)**
- **IBH 6011 - Foundations in Neuropsychology (2.0 cr)**
- **IBH 6021 - Methods and Models III: Relapse Prevention, Risk Reduction & Recovery Maintenance (2.0 cr)**
- **IBH 6031 - Methods and Models IV: Trauma and Anxiety, Assessment and Treatment Intervention (2.0 cr)**
- **IBH 6041 - Advanced Cognitive Therapies for Trauma (2.0 cr)**
- **IBH 6051 - Advanced Group Practice (2.0 cr)**
- **IBH 6061 - Advanced Diagnostic Assessment (3.0 cr)**
- **IBH 6071 - Advanced Professional Issues (3.0 cr)**
- **IBH 6081 - Human Lifespan Development and Behavioral Health (2.0 cr)**
- **IBH 6091 - Career Development and Counseling (2.0 cr)**
- **IBH 6101 - Family Dynamics and Therapy (3.0 cr)**
- **IBH 6111 - Research and Evaluation Methods (3.0 cr)**
- **IBH 6996 - Internship for Integrated Behavioral Health (1.0 - 8.0 cr)**
Twin Cities Campus
Liberal Studies M.L.S.
CCE Graduate Programs Instruction
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
College of Continuing Education, Master of Liberal Studies Program, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108, (612-624-4000; fax: 612-626-2800)
Email: ccemls@umn.edu
Website: http://www.cce.umn.edu/mls

- Program Type: Master's
- Requirements for this program are current for Fall 2011
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Liberal Studies

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The graduate major in liberal studies (LS) offers an interdisciplinary curriculum that includes an introductory seminar, a choice of liberal studies seminars, a choice of electives from disciplines throughout the University, and a final project seminar. Although LS seminars for the M.L.S. are scheduled for early evenings and some Saturday mornings, most graduate-level courses offered during the day are also open to M.L.S. students.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

To be admitted, students must have a bachelor's degree from an accredited post-secondary U.S. institution or its foreign equivalent.

The faculty committee reviewing each application looks for indications that the student can succeed in graduate study, that there is a good "fit" between the M.L.S. program and the student's stated educational objectives, and that the student can express him/herself well in writing. The faculty also looks for positive qualities and other experiences the student will bring to the program.

Special Application Requirements:
The application package must include official transcripts of all baccalaureate and post-baccalaureate work, two letters of reference, an updated resume, a three- to four-page written statement of purpose, and an additional writing sample of 10 to 20 pages. Application deadlines are in spring for summer term and fall semester admission, and in fall for spring semester admission. Please refer to the program website for further details.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550
- IELTS
  - Total Score: 6.5
- MELAB
  - Final score: 80

Key to test abbreviations (TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.
Program Requirements

Plan B: Plan B requires 30 major credits and null credits outside the major. The final exam is written and oral. A capstone project is required.

Capstone Project: The Plan B project is a specific variation of the master's Plan B option. The final project must be prepared as part of LS 8002 - Final Project for Graduate Liberal Studies and must be approved by at least two faculty members and the director of graduate studies.

This program may be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 2.8 is required for students to remain in good standing.

The program requires at least 30 credits. Introduction to Interdisciplinary Inquiry (LS 8001, 3 cr) and the Final Project (LS 8002, 3 cr) seminars are required. Students must take at least 9 credits of liberal studies seminars. The remaining 15 credits are composed of graduate-level electives from disciplines throughout the University of Minnesota, or directed study, directed research, advanced interdisciplinary inquiry, online coursework, or additional liberal studies seminars. Courses are selected with the help of the student's graduate faculty adviser.
Twin Cities Campus
Liberal Studies Minor
CCE Graduate Programs Instruction
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
College of Continuing Education, Master of Liberal Studies Program, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108, (612-624-4000; fax: 612-626-2800)
Email: ccemls@umn.edu
Website: http://www.cce.umn.edu/mls

• Program Type: Graduate minor related to major
• Requirements for this program are current for Fall 2011
• Length of program in credits (Masters): 6
• This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The graduate major in liberal studies offers an interdisciplinary curriculum that includes an introductory seminar, a choice of liberal studies seminars, a choice of electives from disciplines throughout the University, and a final project seminar. Although seminars for the M.L.S. are scheduled for early evenings and some Saturday mornings, most graduate-level courses offered during the day are also open to M.L.S. students.

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.
Twin Cities Campus
Transportation Studies Postbaccalaureate Certificate
CCE Certificate Programs
College of Continuing Education

Link to a list of faculty for this program.

Contact Information:
Transportation Studies Certificate, Information Center, College of Continuing Education, University of Minnesota, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108 (612-624-4000; fax: 612-625-6381)
Email: cts@umn.edu
Website: http://www.cts.umn.edu

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2011
- Length of program in credits: 16
- This program does not require summer semesters for timely completion.
- Degree: Transportation Studies PBacc Cert

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

Note: This program is not currently admitting students. Please contact the program for more information.

The transportation studies program allows students to gain advanced interdisciplinary knowledge of transportation by taking a set of core courses along with a series of focused electives. The certificate program is structured into two program tracks—civil engineering and planning/public policy—to meet the core course requirement. Students select one course from each of the two program tracks. Students are also required to complete one of two 1-credit seminars focusing on intelligent transportation systems or various civil engineering topics as a part of their core coursework. In addition to the foundation, students acquire further expertise in a specific area related to transportation by taking at least 9 graduate credits in a field chosen by the student and approved by the director of graduate studies. These credits may consist of any combination of courses that will further the student's knowledge of a specific transportation-related subject area or areas. A broad array of topical areas and course offerings are available, including advanced traffic engineering and related mathematical disciplines; transportation pavements or structures; management, logistics, regional planning, or human factors; historical, political, or economic analysis.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

Admission requires a B.S. or B.A. from an accredited U.S. institution or foreign counterpoint.

The applicant's undergraduate degree should be in a field related to transportation issues through work experience, community involvement, political leadership, or other activity. Applicants must document study in one or more of the following technical course topics, demonstrating proficiency in physical science and/or quantitative analysis: intermediate economics, theory, statistics, calculus, physics.

Special Application Requirements:
Prospective students must submit a statement explaining how their work experience, community involvement, political leadership, or other activity has prepared them for the program. Prospective students may supplement this statement with letters of recommendation from employers, community leaders, etc., if appropriate.

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 3.00 is required for students to remain in good standing.

The core courses are structured into two program tracks: the civil engineering track includes CE 5211 and CE 5214; the planning/public policy track includes PA 8202 and CE 5212/PA 5232. Students select one course from each of the two program tracks.

Students are also required to complete ME 8772/CE 8213 or CE 8200, a 1-credit seminar, as part of their core coursework. Elective courses consist of any combination of courses in a transportation-related subject area. The courses must be approved by the director of graduate studies. For more information on courses, visit www.cts.umn.edu/Education/Certificate.