

**SPS Graduate Program Curricula
2010-11**

The following program requirements apply to SPS graduate students that begin their program in the 2010-11 academic year. Please note that you are bound to the curriculum requirements in effect in the quarter you start taking courses, not the quarter you are admitted. While we will make every reasonable effort to accommodate students whose programs change, this is not always possible. Northwestern University reserves the right to modify or discontinue any program without notice.

Click on the links below to review the curriculum for your program.

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**Clinical Research and Regulatory Administration
Master of Science Degree Requirements**

Courses	Units
Core Courses (7)	
CLIN_RES 400 Essentials of Initiating Clinical Research	1
CLIN_RES 401 Responsible Conduct of Research	1
CLIN_RES 402 Drug and Device Development	1
CLIN_RES 403 Clinical Research Design and Methodology	1
CLIN_RES 404 Research and Regulatory Administration	1
CLIN_RES 409 or 409-DL Introduction to Biostatistics (now MHI 409-DL)	1
QARS 405 Applied Research and Writing	1
Electives (choose 2)¹	2
Other Required Courses (2)	
LEADERS 481 Foundations of Leadership	1
CLIN RES 590 Capstone Project (see the SPS Graduate Handbook for guidelines)	1
<i>Total required units:</i>	11

Graduate Certificate Requirements

Courses	Units
Core Courses (3)	
CLIN_RES 400 Essentials of Initiating Clinical Research	1
CLIN_RES 401 Responsible Conduct of Research	1
CLIN_RES 402 Drug and Device Development	1
Electives (choose 1)	
CLIN_RES 403 Clinical Research Design and Methodology (Clinical Trials Conduct specialization)	1
CLIN_RES 404 Regulatory Support and Administration (Regulatory Administration specialization)	1
<i>Total required units:</i>	4

¹ A full list of approved electives for MCRRA may be found on the MCRRA program Blackboard site.

**Creative Writing (MA)
Master of Arts Degree Requirements**

Courses	Units
Three workshops in one genre: <ul style="list-style-type: none"> • Fiction: MCW 413 Studies in Fiction Writing • Creative Nonfiction: MCW 461 Studies in Writing Creative Nonfiction • Poetry: MCW 411 Studies in Writing Poetry 	3
One cross-genre course: <ul style="list-style-type: none"> • Fiction: MCW 479 Poetry for Prose Writers • Creative Nonfiction: MCW 479 Poetry for Prose Writers • Poetry: MCW 480 Prose Genres for Poets 	1
Two graduate-level literature courses. These literature courses may be taken from LIT, ENGLISH, COMP_LIT, or other departments of literary study. ¹	2
Three graduate-level elective courses. May not include more than two MCW 499 independent study courses. ²	3
MCW 590 Capstone ³ <i>(see the SPS Graduate Handbook for guidelines)</i>	1
Total required units:	10

¹ Prior approval from the [academic coordinator](#) is required for registration in any courses offered by The Graduate School. No approval is necessary for enrollment in MCW electives, LIT, or IPLS courses.

² Prior approval from the [academic coordinator](#) is required for registration in any courses offered by The Graduate School. No approval is necessary for enrollment in the following School of Continuing Studies master's courses: creative writing electives (MCW), literature (LIT), or liberal studies (IPLS).

³ Now MCW 590 Capstone Preparation and Writing.

**Creative Writing (MFA)
Master of Fine Arts Degree Requirements**

Courses	Units
Seven workshops in one genre: <ul style="list-style-type: none"> • Fiction: MCW 413 Studies in Fiction Writing or Fiction Workshop • Creative Nonfiction: MCW 461 Studies in Writing Creative Nonfiction or Creative Nonfiction Workshop • Poetry: MCW 411 Studies in Writing Poetry or Poetry Workshop 	7
One cross-genre course: <ul style="list-style-type: none"> • Fiction: MCW 479 Poetry for Prose Writers • Creative Nonfiction: MCW 479 Poetry for Prose Writers • Poetry: MCW 480 Prose Genres for Poets 	1
MCW 570 Seminar on Teaching Creative Writing	1
One of the following teaching or publishing courses: <ul style="list-style-type: none"> • MCW 579 Practicum in Teaching Creative Writing • MCW 575 Journal Publishing 	1
Two graduate-level literature courses. These literature courses may be taken from LIT, ENGLISH, COMP_LIT, or other departments of literary study. ¹	2
Four graduate-level elective courses. May not include more than two independent study courses. ²	4
MCW 590 Thesis Research (must be registered for twice) (see the SPS Graduate Handbook for guidelines) ³	2
<i>Total required units:</i>	18

¹ Prior approval from the [academic coordinator](#) is required for registration in any ENGLISH, COMP_LIT, SLAVIC, or other courses offered by The Graduate School. No approval is necessary for enrollment in the following School of Continuing Studies master’s literature courses: literature (LIT).

² Prior approval from the [academic coordinator](#) is required for registration in any courses offered by The Graduate School. No approval is necessary for enrollment in the following School of Continuing Studies master’s courses: creative writing electives (MCW), literature (LIT), or liberal studies (IPLS).

³ Register for MCW 589 Capstone Preparation and Writing and MCW 590 Capstone Writing and Revision (if MCW 590 Thesis Research is no longer available).

**Information Systems¹
Master of Science Degree Requirements**

Courses	Units
Core Courses (3 courses)	3
CIS 313-0 or CIS 313-DL Telecommunications & Computer Networks ²	
CIS 314-0 or CIS 314-DL Object-Oriented Programming ^{3,4}	
CIS 317-0 or CIS 317-DL Introduction to Databases ⁵	
Area of Specialization (Choose 1 specialization of 6 elective courses)	6
<i>Database & Internet Technologies</i> CIS 394-0 or CIS 394-DL Software Project Management & Development ⁶ CIS 419-0 or CIS 419-DL Web Application Development CIS 431-0 or CIS 431-DL Database Administration CIS 435-0 or CIS 435-DL Introduction to Data Warehousing and Data Mining ⁷ Plus Any two other electives from the MSIS curriculum	
<i>Information Systems Security</i> CIS 394-0 or CIS 394-DL Software Project Management & Development ⁶ CIS 452-0 or CIS 452-DL Fundamentals of Network Security CIS 455-0 or CIS 455-DL Business Continuity and Disaster Recovery CIS 457-0 or CIS 457-DL Management of Information Security Plus Any two other electives from the MSIS curriculum	
<i>Software Development & Project Management</i> CIS 394-0 or CIS 394-DL Software Project Management & Development ⁶ CIS 419-0 or CIS 419-DL Web Application Development CIS 483-0 or CIS 483-DL Software Testing and Quality Assurance Plus Any three other electives from the MSIS curriculum	

¹ This program was formerly known as the Master of Science in Computer Information Systems

² Now CIS 413 Telecommunications and Computer Networks.

³ Students who completed CIS 212-CN 'Introduction to Object Oriented Programming' but not CIS 314 'Intermediate Object-Oriented Programming' prior to Fall 2008 may substitute an elective in place of the requirement to take CIS 314.

⁴ Now CIS 414 Introduction to Object-Oriented Programming.

⁵ Now CIS 417 Database Systems Design and Implementation.

⁶ Now CIS 494 Project Management I.

⁷ Now CIS 435 Practical Data Science Using Machine Learning.

<p>Information Systems Management CIS 394-0 or CIS 394-DL Software Project Management & Development¹ CIS 457-0 or CIS 457-DL Management of Information Security CIS 460-0 or CIS 460-DL Information Technology Security² CIS 465-0 or CIS 465-DL Information Technology Strategy Plus Any two other electives from the MSIS curriculum</p>	
<p>Medical Informatics (online only) MED_INF 402 or MHI 402 Introduction to Clinical Thinking MED_INF 403 or MHI 403 Introduction to Medical/Health Informatics MED_INF 405 or MHI 405 HIT Integration, Interoperability and Standards MED_INF 406 or MHI 406 Decision Support Systems and Health Care Plus Any two elective courses from the MSIS curriculum</p>	
<p>Information Systems CIS 394-0 or CIS 394-DL Software Project Management & Development¹ Plus Any five elective courses from the MSIS curriculum</p>	
Other Required Courses	2
LEADERS 481-0 or LEADERS 481-DL Foundations of Leadership	
One of the following	
CIS 498-0 or CIS 498-DL Computer Information Systems Project - or -	
CIS 590-0 or CIS 590-DL Capstone Research (see the SPS Graduate Handbook for guidelines)	
Total required units:	11

¹ Now CIS 494 Project Management I.

² Now CIS 460 Information Technology Management.

Liberal Studies
Master of Arts Degree Requirements

Courses	Units
IPLS 410 Introduction to Cultural Analysis	1
At least two of the following seminars:	2
IPLS 401 Seminar in Liberal Studies I	
IPLS 402 Seminar in Liberal Studies II	
IPLS 403 Seminar in Liberal Studies III	
Five graduate-level electives in humanities and related social sciences ¹ ; may be applied toward a specialization (4 courses) in either: American Studies, History, Religious and Ethical Studies, or an individualized specialization	5
IPLS 590 Thesis Research (see the SPS Graduate Handbook for guidelines)	1
<i>Total required units:</i>	9

¹ Prior approval from the [academic coordinator](#) is required for registration in any courses offered by The Graduate School. No approval is necessary for enrollment in the following School of Continuing Studies master's courses: literature (LIT) and liberal studies (IPLS).

Literature
Master of Arts Degree Requirements

Courses	Units
LIT 410 Introduction to Graduate Study	1
Seven literature courses (400-levels) ¹	7
LIT 590 Thesis Research (see the SPS Graduate Handbook for guidelines)	1
<i>Total required units:</i>	9

¹ Students may take up to 3 approved 300-level courses, which must carry graduate credit. Prior approval from the [academic coordinator](#) is required for registration. Prior approval from the [academic coordinator](#) is required for registration in any courses offered by The Graduate School.

**Medical Informatics
Master of Science Degree Requirements**

Courses	Units
Track Courses (determined upon admission)	0-4
<i>Clinical Track</i>	
CIS 313-DL Telecommunications & Computer Networks ¹	
CIS 317-DL Introduction to Databases ²	
<i>Technologist Track</i>	
MED INF or MHI 401-DL American Health Care System	
MED INF or MHI 402-DL Introduction to Clinical Thinking	
Core courses (7)	
MED INF or MHI 403-DL Introduction to Medical Informatics	1
MED INF 404 Health Care Enterprise Operations or MHI 404 Health Care Organization Operations	1
MED INF or MHI 405-DL Health Care Information Tech Integration & Standards	1
MED INF or MHI 406-DL Decision Support Systems & Health Care	1
MED INF or MHI 407-DL Legal, Ethical & Social Issues in Informatics	1
MED INF or MHI 408-DL Medical Technology Acquisition & Assessment	1
MED INF or MHI 409-DL Introduction to Biostatistics	1
Other Required Courses (2)	2
MED INF 481-DL Foundations of Leadership ³	
<i>One of the following:</i>	
MED INF or MHI 498-DL Capstone Project – or -	
MED INF or MHI 590-DL Thesis Research (see the SPS Graduate Handbook for guidelines)	
<i>Total required units:</i>	11⁴-13

¹ Now CIS 413 Telecommunications and Computer Networks

² Now CIS 417 Database Systems Design and Implementation. From fall 2011, this course is titled CIS 317-DL 'Database Systems Design and Implementation.' All versions of these courses are considered equivalent.

³ From fall 2011, this course is titled LEADERS 481-DL 'Foundations of Leadership'. Both versions of these courses are considered equivalent.

⁴ The minimum number of units required for the degree is 11. Students who have completed all other curriculum requirements and have fewer than eleven units should complete sufficient additional electives to meet this requirement.

**Public Policy and Administration – On Campus
Master of Arts Degree Requirements**

Courses	Units
Core courses (7)	
MPPA 402 Elements of Public Finance & Budgeting	1
MPPA 403 Fundamentals of Public Administration	1
MPPA 405 Elementary Statistics for Research	1
MPPA 406 Analytic Methods for Public Policy Analysis	1
MPPA 407 Scope and Dynamics of Public Policy	1
MPPA 408 Sociology of Organizations	1
MPPA 409 Applied Research and Writing	1
Concentration area courses (choose four electives in one of these areas of concentration)	4
<i>Health Services Policy</i>	
<i>Public Policy</i>	
<i>Public Safety and Security</i>	
<i>Urban Policy and Planning</i>	
Other Required Courses	
MPPA 590 Thesis Research (see the SPS Graduate Handbook for guidelines)	1
LEADERS 481 Foundations of Leadership	1
<i>Total Required Units</i>	13

**Public Policy and Administration – Distance Learning
Master of Arts Degree Requirements**

Courses	Units
Core courses (11)	
MPPA 402-DL Elements of Public Finance & Budgeting	1
MPPA 403-DL Fundamentals of Public Administration	1
MPPA 404-DL Microeconomics for Public Policy and Administration	1
MPPA 405-DL Elementary Statistics for Research	1
MPPA 406-DL Analytic Methods for Public Policy Analysis	1
MPPA 407-DL Scope and Dynamics of Public Policy	1
MPPA 408-DL Sociology of Organizations	1
MPPA 409-DL Applied Research and Writing	1
MPPA 411-DL Legislative Process ¹	1
MPPA 419-DL Strategic Policy Implementation ²	1
MPPA 452-DL The Global City ³	1
Other Required Courses (2)	
MPPA 481-DL Foundations of Leadership	1
<i>One of the following:</i>	
MPPA 498-DL Capstone Project – or -	1
MPPA 590-DL Thesis Research (see the SPS Graduate Handbook for guidelines)	1
Total Required Units	13

¹ Students may take any elective from the MPPA curriculum (e.g. 413, 417, 432, 435) to fulfill this requirement.

² Students may take any elective from the MPPA curriculum (e.g. 411, 413, 417, 435, 450) to fulfill this requirement.

³ Students may take any elective from the MPPA curriculum (e.g. 411, 419, 440, 450) to fulfill this requirement.

Quality Assurance and Regulatory Science
Master of Science Degree Requirements

Courses	Units
Core Courses (7)	
QARS 401 Regulation and Quality Systems	1
QARS 405 Applied Research and Writing	1
QARS 420 Practical Laboratory Management (a.k.a. Practical Quality Management)	1
QARS 421 Applied Quality and Regulatory Practices	1
QARS 430 Ethical and Legal Issues in Regulation and Quality	1
QARS 435 Risk and Decision Management	1
CLIN_RES 409 Introduction to Biostatistics ¹	1
Electives (any two elective QARS or SPS-selected CRRA courses)	2
Other Required Courses	
LEADERS 481 Foundations of Leadership	1
QARS 590 Capstone Project (see the SPS Graduate Handbook for guidelines)	1
Total required units:	11

¹ MED_INF 409-DL 'Introduction to Biostatistics' may substitute for CLIN_RES 409

**Sports Administration
Master of Arts Degree Requirements**

Courses	Units
Core Courses (7)	
MSA 400 Sports in the Social Context	1
MSA 401 Sports Research Methods & Quantitative Analysis	1
MSA 402 Fundamentals of Sports Marketing	1
MSA 403 Management and Organization of Sports	1
MSA 404 Principles of Sports Finance & Accounting ¹	1
MSA 405 Legal & Ethical Issues in Sports Management	1
MSA 406 Sports Risk and Crisis Management ²	1
Concentration area courses (choose two electives in one of these areas of concentration)³	2
<i>Sports Management</i>	
<i>Sports Marketing & Public Relations</i>	
Other Required Courses (2)	
LEADERS 481 Foundations of Leadership	1
<i>One of the following:</i>	1
MSA 498 Capstone Class <i>–or–</i>	
MSA 590 Thesis Research (see the SPS Graduate Handbook for guidelines)	
<i>Total required units:</i>	11

¹ As of Fall 2014, MSA 404 is titled ‘Sports Business: Finance, Accounting and Economics’

² As of Fall 2014, MSA 406 is titled ‘Sports Public Relations and Crisis Management’

³ Students admitted prior to Fall 2014 should petition to take any available electives to meet their specific program track requirements