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Curriculum Committee, "Curriculum Committee Course Proposals 02/16/11" (2011). *Curriculum Committee Reports*. 52.

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Electronic Course Authorization System (ECAS)

ESCI 2103 - VIEW COURSE PROPOSAL

[Back to Proposal List](#)

Approvals Received: Department on 01-28-11 by Jeri Squier (squierj@umn.edu) > Curriculum Committee on 02-16-11 by Jeri Squier (squierj@umn.edu)

Approvals Pending: **Campus Assembly** > Catalog > PeopleSoft Manual Entry

Effective Status: Active

Effective Term: 1115 - Summer 2011

Course: ESCI 2103

Institution: UMNMO - Morris
Campus: UMNMO - Morris

Career: UGRD

College: MDSM - Division of Science and Mathematics

Department: 10565 - UMM-Sci & Math, Div of-Adm

General

Course Title Short: The Roots of Modern Science

Course Title Long: The Roots of Modern Science in 16th-Century Mining

Max-Min Credits for Course: 3.0 to 3.0 credit(s)

Catalog Description: Study of the works of Georgius Agricola and Lazarus Ercker as examples for the emergence of applied chemistry through economic need during the 16th century; site visits to mines and ore processing technological sites of the period. Emphasis on the chemical, physical, and geological aspects of mining and ore-processing technology in a region with an ongoing 800-year history of mining. This course is part of the international program "Journey to the Roots of Modern Science" in Freiberg, Germany.

Print in Catalog?: Yes

Additional Course Information (for catalog production): <no text provided>

Grading Basis: Stdnt Opt

Honors Course: No

Delivery Mode(s): Classroom, Independent Study

Years most frequently offered: Odd years only

Term(s) most frequently offered: Summer

Component 1: LEC (with final exam)

Auto-Enroll Course:	No
Graded Component:	LEC
Academic Progress Units:	Not allowed to bypass limits. 3.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 3.0 credit(s)
Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	Phys 1091, Phys 1101, Chem 1101 or Geol 1001
Course Equivalency:	IS 1322/ESci 2103
Consent Requirement:	Department
Enforced Prerequisites: (course-based or non-course-based)	No prerequisites
Editor Comments:	11.05.10 - Edited for PSoft. jls 02.16.11 - Edited for catalog NEH.
Proposal Changes:	<no text provided>
History Information:	02.16.11 - Received CC approval. jls
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	THIS COURSE PROVIDES AN INTERDISCIPLINARY INTERNATIONAL EXPERIENCE FOR STUDENTS INTERESTED IN THE HISTORY OF SCIENCE AND THE HISTORICAL, ECONOMIC AND POLITICAL SETTINGS THAT LEAD TO SCIENTIFIC DISCOVERY. THIS COURSE EMPHASIZES SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENTS OF THE TIME PERIOD.

General Education

Faculty Sponsor Name:	Sylke Boyd
Requirement this course fulfills:	SCI - SCI Physical & Biological Sciences without Lab
Provisional Approval:	Not Requested
Regular Approval:	Requested on Nov 4, 2010

[Back to Proposal List](#)

Contact One Stop: e-mail: ummonestop@lists.umn.edu

Electronic Course Authorization System (ECAS)

IS 1322 - VIEW COURSE PROPOSAL

[Back to Proposal List](#)

Approvals Received: **Department** **Curriculum Committee**
 on 11-04-10 on 02-16-11
 by Carol Ford by Jeri Squier
 (fordcj@umn.edu) (squierj@umn.edu)

Approvals Pending: **Campus Assembly** > Catalog > PeopleSoft Manual Entry

Effective Status: Active

Effective Term: 1115 - Summer 2011

Course: IS 1322

Institution: UMNMO - Morris
Campus: UMNMO - Morris

Career: UGRD

College: MCAA - Academic Affairs

Department: 10533 - UMM-Academic Services

General

Course Title Short: 16th Century Mining in Saxony

Course Title Long: Land and People in the 16th-Century Mining Region of the Erzgebirge, Saxony

**Max-Min Credits
for Course:** 3.0 to 3.0 credit(s)

**Catalog
Description:** Study of the works of Georgius Agricola and Lazarus Ercker as examples for the emergence of applied chemistry through economic need during the 16th century; site visits to mines and ore processing technological sites of the period. Emphasis on political, economical, cultural, and environmental implications encountered in a region with an ongoing 800-year history of mining. This course is part of the international program "Journey to the Roots of Modern Science" in Freiberg, Germany.

Print in Catalog?: Yes

**Additional Course
Information
(for catalog
production):** <no text provided>

Grading Basis: Stdnt Opt

Honors Course: No

Delivery Mode(s): Classroom, Independent Study

**Years most
frequently offered:** Odd years only

**Term(s) most
frequently offered:** Summer

Component 1: LEC (no final exam)

**Auto-Enroll
Course:** No

Graded Component:	LEC
Academic Progress Units:	Not allowed to bypass limits. 3.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 3.0 credit(s)
Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	<no text provided>
Course Equivalency:	IS 1322/ESci 2103
Consent Requirement:	No required consent
Enforced Prerequisites: (course-based or non-course-based)	No prerequisites
Editor Comments:	11.05.10 - Edited for PSoft. jls 02.16.11 - Edited for catalog NEH.
Proposal Changes:	<no text provided>
History Information:	02.16.11 - Received CC approval. jls
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	THIS COURSE PROVIDES AN INTERDISCIPLINARY INTERNATIONAL EXPERIENCE FOR STUDENTS INTERESTED IN THE HISTORY OF SCIENCE AND THE HISTORICAL, ECONOMIC AND POLITICAL SETTINGS THAT LEAD TO SCIENTIFIC DISCOVERY. THIS COURSE EMPHASIZES THE SOCIO-ECONOMIC CIRCUMSTANCES AS WELL AS ISSUES OF SUSTAINABILITY.

General Education

Faculty Sponsor Name:	Sylke Boyd
Requirement this course fulfills:	ENVT - ENVT People and the Environment
Provisional Approval:	Not Requested
Regular Approval:	Requested on Nov 4, 2010

[Back to Proposal List](#)

Contact One Stop: e-mail: ummonestop@lists.umn.edu

Electronic Course Authorization System (ECAS)

IS 1806 - VIEW COURSE PROPOSAL

[Back to Proposal List](#)

Approvals Received: Department on 02-17-11 by Carol Ford (fordcj@umn.edu) > Curriculum Committee on 02-23-11 by Jeri Squier (squierj@umn.edu)

Approvals Pending: Campus Assembly > Catalog

Effective Status: Active

Effective Term: 1119 - Fall 2011

Course: IS 1806

Institution: UMNMO - Morris
Campus: UMNMO - Morris

Career: UGRD

College: MCAA - Academic Affairs

Department: 10533 - UMM-Academic Services

General

Course Title Short: Bottom Dwellers, Oceans of Air

Course Title Long: Bottom Dwellers in an Ocean of Air

Max-Min Credits for Course: 2.0 to 2.0 credit(s)

Catalog Description: We live on the bottom of an ocean of a mix of gases and vapors which is kept in constant, chaotic motion by uneven heating and planetary rotation, thus evading our control. We, as humans, are often on the defense or in a role of passive adaptation with regard to weather. Are human beings victims or actors on the stage of global atmospheric dynamics? Striving to assemble an answer to this question, students in the course: (1) mine human history for cases in which significant interaction between human society and climate was found; (2) study individual events in which history and weather were intertwined; (3) learn about palaeoclimate research; and (4) pay particular attention on how this interaction between society and atmosphere is shaped in the modern world. The physical principles of weather and climate are introduced as needed for meaningful discussion.

Print in Catalog?: Yes

Additional Course Information (for catalog production): <no text provided>

Grading Basis: Stdnt Opt

Honors Course: No

Delivery Mode(s): Classroom

Years most frequently offered: Odd years only

Term(s) most frequently offered: Fall

Component 1:	LEC (with final exam)
Auto-Enroll Course:	No
Graded Component:	LEC
Academic Progress Units:	Not allowed to bypass limits. 2.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 2.0 credit(s)
Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	new college student in their first semester of enrollment at UMM
Course Equivalency:	No course equivalencies
Consent Requirement:	No required consent
Enforced Prerequisites: (course-based or non-course-based)	003214 - new college student in their first semester of enrollment at UMM
Editor Comments:	02.18.11 - Edited for PSoft. jls 02.23.11 - Edited for catalog NEH.
Proposal Changes:	<no text provided>
History Information:	02.23.11 - Received CC approval. jls
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	COURSE CREATES A NEW INTELLECTUAL COMMUNITY COURSE OPTION IN THE SCIENCES.

General Education

Faculty Sponsor Name:	Sylke Boyd
Requirement this course fulfills:	IC - IC Intellectual Community
Provisional Approval:	Not Requested
Regular Approval:	Requested on Feb 23, 2011

[Back to Proposal List](#)

Contact One Stop: e-mail: ummonestop@lists.umn.edu

Electronic Course Authorization System (ECAS)

STAT 4681 - VIEW COURSE PROPOSAL

[Back to Proposal List](#)

Approvals Received: Department Curriculum Committee
 on 02-17-11 > on 02-23-11
 by Carol Ford by Jeri Squier
 (fordcj@umn.edu) (squierj@umn.edu)

Approvals Pending: Campus Assembly > Catalog

Effective Status: Active

Effective Term: 1119 - Fall 2011

Course: STAT 4681

Institution: UMNMO - Morris
Campus: UMNMO - Morris

Career: UGRD

College: MDSM - Division of Science and Mathematics

Department: 10565 - UMM-Sci & Math, Div of-Adm

General

Course Title Short: Intro to Time Series Analysis

Course Title Long: Introduction to Time Series Analysis

Max-Min Credits for Course: 4.0 to 4.0 credit(s)

Catalog Description: Introduction to the analysis of time series including those with a connection to environment such as spatial and spatio-temporal statistics. Randomness test, ARMA, ARIMA, spectral analysis, models for stationary and non-stationary time series, seasonal time series models, conditional heteroscedastic models, spatial random processes, covariance functions and variograms, interpolation and kriging.

Print in Catalog?: Yes

Additional Course Information (for catalog production): <no text provided>

Grading Basis: Stdnt Opt

Honors Course: No

Delivery Mode(s): Classroom

Years most frequently offered: Odd years only

Term(s) most frequently offered: Fall, Summer

Component 1: LEC (with final exam)

Auto-Enroll Course: No

Graded Component:	LEC
Academic Progress Units:	Not allowed to bypass limits. 4.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 4.0 credit(s)
Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	3601 or #
Course Equivalency:	No course equivalencies
Consent Requirement:	No required consent
Enforced Prerequisites: (course-based or non-course-based)	No prerequisites
Editor Comments:	02.18.11 - Edited for PSoft. jls 02.23.11 - Edited for catalog NEH.
Proposal Changes:	<no text provided>
History Information:	02.23.11 - Received CC approval. jls
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	THIS COURSE WILL SERVE AS AN ELECTIVE FOR STATISTICS MAJOR. THE CURRENT STATISTICS OFFERINGS ARE LIMITED. NEW ADVANCE COURSE IS REQUIRED TO LEARN NEW TOPICS IN STATISTICS.

General Education

Faculty Sponsor Name:	Jong-Min Kim
Requirement this course fulfills:	M/SR - M/SR Mathematical/Symbolic Reasoning
Provisional Approval:	Not Requested
Regular Approval:	Requested on Feb 9, 2011

[Back to Proposal List](#)

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Electronic Course Authorization System (ECAS)

STAT 3501 - VIEW COURSE PROPOSAL

[Back to Proposal List](#)

Approvals Received: **Department** **Curriculum Committee**
 on 02-17-11 on 02-23-11
 by Carol Ford by Jeri Squier
 (fordcj@umn.edu) (squierj@umn.edu)

Approvals Pending: **Campus Assembly** > Catalog

Effective Status: Active

Effective Term: **New:** 1119 - Fall 2011
 Old: 1089 - Fall 2008

Course: STAT 3501

Institution: UMNMO - Morris
Campus: UMNMO - Morris

Career: UGRD

College: MDSM - Division of Science and Mathematics

Department: 10565 - UMM-Sci & Math, Div of-Adm

General

Course Title Short: Survey Sampling

Course Title Long: Survey Sampling

**Max-Min Credits
for Course:** 4.0 to 4.0 credit(s)

**Catalog
Description:** Introduction to basic concepts and theory of designing surveys. Topics include sample survey designs including simple random sampling, stratified random sampling, cluster sampling, systemic sampling, multistage and two-phase sampling including ratio and regression estimation, Horvitz-Thomson estimation, questionnaire design, non-sampling errors, missing value-imputation method, sample size estimation, and other topics related to practical conduct of surveys.

Print in Catalog?: Yes

**Additional Course
Information
(for catalog
production):** <no text provided>

Grading Basis: Stdnt Opt

Honors Course: No

Delivery Mode(s): Classroom

**Years most
frequently offered:** **New:** Even years only
 Old: Every academic year

**Term(s) most
frequently offered:** **New:** Fall, Summer
 Old: Summer

Component 1: LEC (no final exam)

Auto-Enroll Course:	No
Graded Component:	LEC
Academic Progress Units:	Not allowed to bypass limits. 4.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 4.0 credit(s)
Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	1601 or 2601 or #
Course Equivalency:	No course equivalencies
Consent Requirement:	No required consent
Enforced Prerequisites: (course-based or non-course-based)	No prerequisites
Editor Comments:	New: 02.18.11 - Edited for PSoft. jls 02.27.08 - Edited for PSoft. jlm. Edited for catalog 03.05.08 NEH. Old: 02.27.08 - Edited for PSoft. jlm. Edited for catalog 03.05.08 NEH.
Proposal Changes:	<no text provided>
History Information:	New: 02.23.11 - Received CC approval. jls 04.29.08 - Received CA approval. jls 03.05.08 - Due to annual planning and registration, this course was given provisional approval. jlm 03.04.08 - Received CC approval. jlm Old: 04.29.08 - Received CA approval. jls 03.05.08 - Due to annual planning and registration, this course was given provisional approval. jlm 03.04.08 - Received CC approval. jlm
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	New: COURSE IS BEING OFFERED EVERY OTHER RATHER THAN EVERY YEAR TO FREE UP TEACHING RESOURCES TO TEACH THE NEW COURSE STAT 4681 Old: SURVEY SAMPLING DESIGN IS VERY USEFUL FOR ALL ACADEMIC AREAS, BUT ESPECIALLY IN THE SOCIAL SCIENCES, EDUCATION AND MARKETING. THIS COURSE WILL BE ESPECIALLY HELPFUL FOR STUDENTS WHO MIGHT DO SURVEY RESEARCH IN THE FUTURE, BUT ALSO FOR STUDENTS WHO NEED TO READ AND UNDERSTAND THE SURVEY METHODS REPORTED IN OTHER RESEARCH.

General Education

Faculty Sponsor Name:	Jong-Min Kim
Requirement this course fulfills:	M/SR - M/SR Mathematical/Symbolic Reasoning
Provisional Approval:	Not Requested
Regular Approval:	New: Requested on Feb 9, 2011 Old: Requested on Apr 30, 2008

[Back to Proposal List](#)

Electronic Course Authorization System (ECAS)

CSCI 4511 - VIEW COURSE PROPOSAL

[Back to Proposal List](#)

Approvals Received: **Department** **Curriculum Committee**
 on 02-28-11 on 03-09-11
 by Carol Ford by Jeri Squier
 (fordcj@umn.edu) (squierj@umn.edu)

Approvals Pending: **Campus Assembly** > Catalog

Effective Status: Active

Effective Term: 1119 - Fall 2011

Course: CSCI 4511

Institution: UMNMO - Morris
Campus: UMNMO - Morris

Career: UGRD

College: MDSM - Division of Science and Mathematics

Department: 10565 - UMM-Sci & Math, Div of-Adm

General

Course Title Short: Theory: Artificial Life

Course Title Long: Theory: Artificial Life

**Max-Min Credits
for Course:** 2.0 to 2.0 credit(s)

**Catalog
Description:** Introduction to the field of Artificial Life and the phenomena of living systems, with an emphasis on computational approaches to understanding the logic of living systems in artificial environments. Techniques and tools used to better understand the complex information processing that defines living systems, such as agent-based systems, evolutionary computation, cellular automata, and digital simulations.

Print in Catalog?: Yes

**Additional Course
Information
(for catalog
production):** <no text provided>

Grading Basis: Stdnt Opt

Honors Course: No

Delivery Mode(s): Classroom

**Years most
frequently offered:** Other frequency

**Term(s) most
frequently offered:** Fall, Spring

Component 1: LEC (with final exam)

**Auto-Enroll
Course:** No

Graded Component:	LEC
Academic Progress Units:	Not allowed to bypass limits. 2.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 2.0 credit(s)
Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	2101 or #
Course Equivalency:	No course equivalencies
Consent Requirement:	No required consent
Enforced Prerequisites: (course-based or non-course-based)	No prerequisites
Editor Comments:	02.28.11 - Edited for PSoft. jls 03.09.11 - Edited for catalog NEH.
Proposal Changes:	<no text provided>
History Information:	03.09.11 - Received CC approval. jls
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	WE HAVE A NUMBER OF STUDENTS WHO ARE INTERESTED IN INTERDISCIPLINARY MATERIAL AT THE INTERSECTION OF COMPUTING WITH AREAS LIKE COGNITION AND BIOLOGY. THERE IS BROAD INTEREST FROM THE STUDENTS (BOTH COMPUTER SCIENCE MAJORS AND NON-CSCI MAJORS INTERESTED IN COGNITIVE SCIENCE) IN HAVING THIS COURSE, WHICH IS SIMILAR TO COURSES OFFERED AT A NUMBER OF OTHER INSTITUTIONS, AND THE MATERIAL IS RELATED TO NIC'S RESEARCH INTERESTS.

General Education

Faculty Sponsor Name:	Nic McPhee
Requirement this course fulfills:	M/SR - M/SR Mathematical/Symbolic Reasoning
Provisional Approval:	Not Requested
Regular Approval:	Requested on Feb 16, 2011

[Back to Proposal List](#)

Contact One Stop: e-mail: ummonestop@lists.umn.edu