



Campus Curricula Committee Meeting Agenda

December 4, 2019

9:00am - 10:30am, Bertelsmeyer 110H

(For Faculty Senate Meeting of January 23, 2020)

Review of submitted Course Change forms:

File: 4616.6	COMP SCI 1500: Computational Problem Solving
File: 4675	HISTORY 2791: Historical Research Methods
File: 4272	HISTORY 4551: Chicago: Architecture, Technology, Culture
File: 2368.1	HISTORY 4790: Historiography
File: 1362.2	TCH COM 5520: Help Authoring
File: 375.1	TCH COM 6420: Project Information Management in Technical Communication

Review of submitted Degree Change forms:

File: 147.14	BIO SC-BS: Biological Sciences BS
File: 67.5	GEOL-MI: Geology Minor
File: 157.19	HIST-BA: History BA

Review of submitted Experimental Course forms:

File: 4679	BIO SCI 4001.005: Immunology
File: 4678	BIO SCI 5001.006: Forest, Prairie and Wildlife Management and Conservation
File: 4671	CHEM ENG 5001.010: Introduction to Lubrication and Tribology
File: 4677	CIV ENG 5001.004: Bridge Engineering
File: 4670	COMP ENG 5001.001: Introduction to Convex Optimization
File: 4680	HISTORY 4001.004: Historical Representation in Video Games
File: 4674	PHILOS 2001.004: Philosophy of the City

Course Change Request

Date Submitted: 10/28/19 3:38 pm

Viewing: **COMP SCI 1500 : Computational Problem Solving**

File: 4616.6

Last approved: 06/17/19 3:37 am

Last edit: 10/29/19 9:54 am

Changes proposed by: zhupe

Programs referencing this course	CP ENG-BS: Computer Engineering BS
Other Courses referencing this course	In The Prerequisites: COMP SCI 1200 : Discrete Mathematics for Computer Science COMP SCI 1570 : Introduction To C++ Programming

Requested Effective Change Date: Fall ~~2020~~ **2019**

Department: Computer Science
 Discipline: Computer Science (COMP SCI)
 Course Number: 1500
 Title: Computational Problem Solving
 Abbreviated Course Title: Computational Solving

Catalog Description	This course provides a rigorous introduction to computational problem solving, thinking, and debugging, for those with little-to-no experience in computer science. Language-agnostic foundations focus on pseudo-code, flowcharts, and software-based code tracing, then build to programming in a high-level interpreted language, with a focus on data and modeling.				
Prerequisites					
Field Trip Statement					
Credit Hours	LEC: 2 3	LAB: 1 0	IND: 0	RSD: 0	Total: 3
Required for Majors	Yes				
Elective for Majors	No				

Justification for change: This is a nominal, not actual change to the course, and does not impact total hours. The purpose of the lab is to make scheduling easier for what we are already doing:

- In Workflow
1. **RCOMPSCI Chair**
 2. **CCC Secretary**
 3. **Engineering DSCC Chair**
 4. **Pending CCC Agenda post**
 5. **CCC Meeting Agenda**
 6. Campus Curricula Committee Chair
 7. FS Meeting Agenda
 8. Faculty Senate Chair
 9. Registrar
 10. CAT entry
 11. Peoplesoft

- Approval Path
1. 11/13/19 2:49 pm Bruce McMillin (ff): Approved for RCOMPSCI Chair
 2. 11/13/19 4:13 pm Brittany Parnell (ershenb): Approved for CCC Secretary
 3. 11/18/19 8:36 am Stephen Raper (sraper): Approved for Engineering DSCC Chair
 4. 11/18/19 2:38 pm Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

History

once a week, we give tests in CLCs on computers, rather than on paper, with two days a week of lecture.

1. Jun 17, 2019 by
Daniel Tauritz
(tauritzd)

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4616

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 10/30/19 4:10 pm

Viewing: **HISTORY 2791 : Historical Research Methods**

File: 4675

Last edit: 10/30/19 4:10 pm

Changes proposed by: dewittp

Programs referencing this course

- [HIST-BA: History BA](#)
- [HISTORY-BS: Bachelor of Science in History](#)

Requested: Fall 2020
 Effective Change Date:
 Department: History and Political Science
 Discipline: History (HISTORY)
 Course Number: 2791
 Title: Historical Research Methods
 Abbreviated Course Title: Hist Research Methods

Catalog Description: The course focuses on methodology and teaches the skills historians use through hands-on activities and assignments. Students learn to critically evaluate primary documents, conduct good historical research, write analytical essays, and correctly cite sources.

Prerequisites: History 1100, History 1200, History 1300, or History 1310.

Field Trip Statement:

Credit Hours: LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Required for Majors: Yes

Elective for Majors: Yes

Justification for new course: The history department decided to change how it taught historiography because students need more training in writing and research methods to become true professionals. Instead of having one sophomore-level course that combined research methods with historiography (the history of history) and demanded an immense workload that few students could maintain, the department decided to divide the course into two distinct subjects. The first of these required courses is this research methods course with a number of hands-on exercises and a manageable

In Workflow

1. RHISTORY Chair
2. CCC Secretary
3. Arts & Humanities DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Approval Path

1. 10/31/19 8:45 am
Michael Bruening (bruening): Approved for RHISTORY Chair
2. 10/31/19 10:26 am
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 10/31/19 10:41 am
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 11/18/19 2:38 pm
Brittany Parnell (ershenb): Approved for

work load. Once students understand the craft of the historian they will be able to take the other required 4000 level capstone course that teaches historiography and asks students to write a lengthy research paper.

Pending CCC
Agenda post

Semesters
previously
offered as an
experimental
course

Taught as History 2790 for over two decades.

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4675

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 11/07/19 7:29 pm

Viewing: **HISTORY 4551 : Chicago: Architecture, Technology, Culture**

File: 4272

Last edit: 11/11/19 9:05 am

Changes proposed by: schrammj

Requested	Summer 2020
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	4551
Title	Chicago: Architecture, Technology, Culture
Abbreviated Course Title	Chicago

In Workflow

1. RHISTORY Chair
2. CCC Secretary
3. Arts & Humanities DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Catalog

Description

This course examines the history of modern architecture, including the technological, social, economic, political and cultural dialog by using the city of Chicago as a text. Students will live and have class in the city and tour multiple historic and architectural sites. This is an immersive urban architectural experience for students.

Prerequisites

History 1200, History 1300, History 1310 or instructor approval.

Field Trip

Statement

This course is to be held on site in Chicago, normally for 2 weeks after the spring semester, and requires additional travel and lodging costs to be determined each year it is offered.

Credit Hours	LEC: 3.0	LAB: 0	IND: 0	RSD: 0	Total: 3.0
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Required for Majors No

Elective for Majors No

Approval Path

1. 11/08/19 4:02 pm
Michael Bruening (bruening):
Approved for RHISTORY Chair
2. 11/11/19 9:05 am
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 11/11/19 9:14 am
Petra Dewitt (dewitt):
Approved for Arts & Humanities DSCC Chair
4. 11/18/19 2:38 pm
Brittany Parnell (ershenb):
Approved for

Justification for
new course:

Pending CCC
Agenda post

Chicago is arguably the best city on earth to experience and learn about the architecture of the last 150 years. By living and learning downtown, students will be immersed in the historic and contemporary architecture of Chicago, as well as the culture of a large and vibrant city. Extensive tours and site visits are planned of historic and contemporary architectural and other sites. Collaborations with colleagues at Chicago area institutions such as IIT and Northwestern are being explored but are not yet finalized.

Semesters Has been taught 2016 and 2018

previously

offered as an Summer 2016 enrollment: 8

experimental Summer 2018 enrollment: 5

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4272

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/30/19 4:13 pm

Viewing: **HISTORY 4790** ~~2790~~: Historiography

File: 2368.1

Last edit: 10/31/19 8:46 am

Changes proposed by: dewittp

Programs referencing this course

- [HIST-BA: History BA](#)
- [HISTORY-BS: Bachelor of Science in History](#)

Requested **Fall 2020** ~~08/14/2018~~
 Effective Change Date
 Department History and Political Science
 Discipline History (HISTORY)
 Course Number **4790** ~~2790~~
 Title Historiography
 Abbreviated Course Title Historiography

- In Workflow
- RHISTORY Chair**
 - CCC Secretary**
 - Arts & Humanities DSCC Chair**
 - Pending CCC Agenda post**
 - CCC Meeting Agenda**
 - Campus Curricula Committee Chair
 - FS Meeting Agenda
 - Faculty Senate Chair
 - Registrar
 - CAT entry
 - Peoplesoft

Approval Path

- 10/31/19 8:47 am
Michael Bruening (bruening):
Approved for RHISTORY Chair
- 10/31/19 10:27 am
Brittany Parnell (ershenb):
Approved for CCC Secretary
- 10/31/19 10:41 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair
- 11/18/19 2:38 pm
Brittany Parnell

Catalog Description
 Historical interpretation from Herodotus to the present. Emphasis will be placed on reading the works of prominent historians in analyzing the major developments in historical writing. ~~Familiarization with historical source material will be another feature of this course.~~Serves as capstone course.

Prerequisites
History 2791 and junior or senior standing. ~~Sophomore standing.~~

Field Trip Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	Yes No				
Elective for Majors	No				

Justification for
change:

The history department decided to change how it taught historiography because students need more training in writing and research methods to become true professionals. Instead of having one sophomore-level course that combined research methods with historiography (the history of history) and demanded an immense workload that few students could maintain, the department decided to divide the course into two distinct subjects. The first of these required courses is a research methods course with a number of hands on exercises and a manageable work load. Once students understand the craft of the historian they will be able to take this required 4000 level capstone course that teaches historiography and asks students to write a lengthy research paper.

Semesters
previously
offered as an
experimental
course

Taught for over two decades as History 2790.

Co-Listed
Courses:

Course Reviewer
Comments

(ershenb):
Approved for
Pending CCC
Agenda post

Key: 2368

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/31/19 1:20 pm

Viewing: **TCH COM 5520** ~~4520~~: Help Authoring

File: 1362.2

Last approved: 06/30/14 3:55 am

Last edit: 10/31/19 4:09 pm

Changes proposed by: kswenson

Programs [TCH COM-MS: Technical Communication MS](#)

referencing this course

Requested **Fall 2020** ~~08/01/2014~~
 Effective Change Date
 Department English and Technical Communication
 Discipline Technical Communication (TCH COM)
 Course Number **5520** ~~4520~~
 Title Help Authoring
 Abbreviated Course Title Help Authoring

Catalog Description Students will acquire the technological and rhetorical skills necessary for creating effective online help systems, including context-sensitive help for computer applications.

Prerequisites One semester of college composition or technical writing, or graduate standing.

Field Trip Statement

Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Required for Majors No

Elective for Majors No

Justification for change: This is being/has been taught as a graduate course and is part of the MS degree requirements. A 5000-level number is appropriate.

Semesters previously offered as an experimental course

- In Workflow
1. **RENLISH Chair**
 2. **CCC Secretary**
 3. **Arts & Humanities DSCC Chair**
 4. **Pending CCC Agenda post**
 5. **CCC Meeting Agenda**
 6. Campus Curricula Committee Chair
 7. FS Meeting Agenda
 8. Faculty Senate Chair
 9. Registrar
 10. CAT entry
 11. Peoplesoft

- Approval Path
1. 10/31/19 1:32 pm
Kristine Swenson (kswenson): Approved for RENGLISH Chair
 2. 10/31/19 4:10 pm
Brittany Parnell (ershenb): Approved for CCC Secretary
 3. 11/01/19 8:22 am
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
 4. 11/18/19 2:38 pm
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Co-Listed

Courses:

Course Reviewer

Comments

History

1. Jun 30, 2014 by

kswenson

(1362.1)

Key: 1362

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/31/19 1:22 pm

Viewing: **TCH COM 6420 : Project ~~Information~~-Management in Technical Communication**

File: 375.1

Last edit: 10/31/19 2:33 pm

Changes proposed by: kswenson

Programs [TCH COM-MS: Technical Communication MS](#)
referencing this course

Requested **Fall 2020** ~~08/01/2014~~
Effective Change Date
Department English and Technical Communication
Discipline Technical Communication (TCH COM)
Course Number 6420
Title **Project ~~Information~~**-Management in Technical Communication
Abbreviated Course Title **Project ~~Information~~** Management

Catalog Description Study of and practice in directing projects related to such areas as multimedia, web sites, strategic planning, newsletters. Includes writing planning documents, selecting team members, synchronizing assignments, testing prototypes, and issuing a final report.

Prerequisites

Field Trip Statement

Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Required for Majors No

Elective for Majors No

Justification for change: This course was inappropriately titled ("Information Management" means something specific and different from the approved content of this course). The new title better represents that content and will allow the course to be taught more regularly.

Semesters previously

In Workflow

1. **REGLISH Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Approval Path

1. 10/31/19 1:32 pm Kristine Swenson (kswenson): Approved for REGLISH Chair
2. 10/31/19 2:34 pm Brittany Parnell (ershenb): Approved for CCC Secretary
3. 10/31/19 2:55 pm Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 11/18/19 2:38 pm Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer
Comments

Key: 375

[Preview Bridge](#)

Program Change Request

Date Submitted: 11/13/19 10:26 am

Viewing: **BIO SC-BS : Biological Sciences BS**

File: 147.14

Last approved: 06/18/18 12:28 pm

Last edit: 11/13/19 1:10 pm

Changes proposed by: shannonk

Catalog Pages Using this Program

[Biological Sciences](#)

Start Term

Fall 2020 ~~08/13/2018~~

Program Code

BIO SC-BS

Department

Biological Sciences

Title

Biological Sciences BS

Program Requirements and Description

In Workflow

1. **RBIOLSCI Chair**
2. **CCC Secretary**
3. **Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Kristy Giacomelli-Feys

Approval Path

1. 11/13/19 12:10 pm
David Duvernell (duverneld):
Approved for
RBIOLSCI Chair
2. 11/13/19 1:10 pm
Brittany Parnell (ershenb):
Approved for CCC
Secretary
3. 11/19/19 12:22 pm
Katie Shannon (shannonk):
Approved for
Sciences DSCC
Chair
4. 11/19/19 1:52 pm
Brittany Parnell (ershenb):
Approved for
Pending CCC
Agenda post

History

1. Aug 1, 2014 by
[Katie Shannon](#)

- (shannonk)
 2. Feb 1, 2016 by
 Ilene Morgan
 (imorgan)
 3. Jun 18, 2018 by
 Katie Shannon
 (shannonk)

Bachelor of Science Biological Sciences Degree Requirements

A minimum of **124** ~~130~~ credit hours is required for a Bachelor of Science degree in Biological Science.

A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.

These requirements for the B.S. degree are in addition to credit that is received for basic ROTC.

The Biological Science B.S. degree must include 49 semester hours of biological sciences course work, to include:

BIO SCI 1201	Biological Sciences Freshman Seminar	1
BIO SCI 1113	General Biology	3
or BIO SCI 1213	Principles of Biology	
BIO SCI 1219	General Biology Lab	2
BIO SCI 1223	Biodiversity	3
BIO SCI 1229	Biodiversity Lab	1
BIO SCI 2213	Cell Biology	3
BIO SCI 2219	Cell Biology Laboratory	1
BIO SCI 2223	General Genetics	3
BIO SCI 2263	Ecology	3
BIO SCI 3233	Evolution	3
BIO SCI 4010	Seminar	1
Advanced biological sciences or approved course work in other departments for a total of 49 credit hours of biology-related classes to include at least one laboratory course from the following:		25
BIO SCI 3319	Microbiology Lab	
or BIO SCI 3339	Human Anatomy Physiology I Lab	
or BIO SCI 3349	Human Anatomy and Physiology II Laboratory	
or BIO SCI 4329	Molecular Genetics Laboratory	
19 semester hours of chemistry to include general chemistry		19
CHEM 1310 & CHEM 1319	General Chemistry I and General Chemistry Laboratory	

& CHEM 1320 & CHEM 1100	and General Chemistry II and Introduction To Laboratory Safety & Hazardous Materials	
CHEM 2210 & CHEM 2219 & CHEM 2220 & CHEM 2229	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	
2 semesters of College (Engineering) Physics and labs		8
PHYSICS 1145 & PHYSICS 1119	College Physics I and General Physics Laboratory	
or PHYSICS 1135	Engineering Physics I	
PHYSICS 2145 & PHYSICS 2119	College Physics II and General Physics Laboratory	
or PHYSICS 2135	Engineering Physics II	
Math and Statistics		8-9
MATH 1208	Calculus With Analytic Geometry I	
or MATH 1214	Calculus For Engineers I	
or MATH 1212	Business Calculus	
STAT 5425	Introduction to Biostatistics	
12 semester hours of humanities, excluding foreign language, and to include:		12
ENGLISH 1120 & ENGLISH 1160	Exposition And Argumentation and Writing And Research (entering students will normally take ENGLISH 1120 either semester of the first year)	
9 hours of social sciences, to include		9
HISTORY 1200	Modern Western Civilization (or equivalent)	
or HISTORY 1300	American History To 1877	
or HISTORY 1310	American History Since 1877	
or POL SCI 1200	American Government	
Total Credits		105-106

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of **124** ~~130~~ credit hours.

Justification for request

We have compared our degree to other Biology BS degrees in the UM system, and 130 hours was higher than all other programs. We are changing the total hours to 124 hours, which will only decrease free elective requirements.

Supporting Documents

Course Reviewer Comments

ershenb (11/13/19 1:10 pm): updated start term to fall 2020

ershenb (11/13/19 1:10 pm): .

Program Change Request

Date Submitted: 10/29/19 6:51 pm

Viewing: **GEOL-MI : Geology Minor**

File: 67.5

Last approved: 07/21/15 9:29 am

Last edit: 11/04/19 10:07 am

Changes proposed by: locmelism

Catalog Pages Using this Program

[Geology and Geophysics](#)

Start Term

Fall 2020 08/17/2015

Program Code

GEOL-MI

Department

Geosciences and Geological and Petroleum Engineering

Title

Geology Minor

Program Requirements and Description

In Workflow

1. RGEOENG Chair
2. CCC Secretary
3. Sciences DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Kristy Giacomelli-Feys

Approval Path

1. 10/29/19 8:24 pm
David Borrok (borrokd): Approved for RGEOENG Chair
2. 10/31/19 10:03 am
Brittany Parnell (ershenb): Rollback to RGEOENG Chair for CCC Secretary
3. 11/01/19 9:07 am
David Borrok (borrokd): Approved for RGEOENG Chair
4. 11/04/19 10:07 am
Brittany Parnell (ershenb): Approved for CCC Secretary
5. 11/19/19 12:22 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair

6. 11/19/19 1:53 pm
 Brittany Parnell
 (ershenb):
 Approved for
 Pending CCC
 Agenda post

History

1. Aug 27, 2014 by pantaleoa
2. Aug 27, 2014 by pantaleoa
3. Aug 27, 2014 by pantaleoa
4. Jul 21, 2015 by pantaleoa

Minor in Geology

The minor will consist of 18 hours of geology related course work and must include [GEOLOGY 2611](#) and one of [GEOLOGY 1110](#) or [GEO ENG 1150](#) or [GEOLOGY 1120](#). Six additional hours of course work must come from any combination of 1000, 2000, 3000 geology courses. The remaining 6 hours of course work can be from any combination of geology related courses approved by the geology and geophysics program. Approved geology related course work:

BIO SCI 1113	General Biology	3
BIO SCI 1213	Principles of Biology	3
BIO SCI 2233	Course BIO SCI 2233 Not Found	
BIO SCI 2263	Ecology	3
BIO SCI 3233	Evolution	3
ENV ENG 3603	Chemical Fundamentals Of Environmental Engineering	3
ENV ENG 5630	Remediation of Contaminated Groundwater And Soil	3
ENV ENG 5605	Environmental Systems Modeling	3
GEO ENG 3175	Geomorphology And Terrain Analysis	3
GEO ENG 4115	Statistical Methods in Geology and Engineering	3
MIN ENG 3913	Mineral Identification and Exploration	3
MIN ENG 3812	Course MIN ENG 3812 Not Found	
MIN ENG 4522	Course MIN ENG 4522 Not Found	
MIN ENG 4823	Course MIN ENG 4823 Not Found	
MIN ENG 5522	Ore Reserve Analysis and Geostatistics	3
MIN ENG 5823	Rock Mechanics	3
PET ENG 3330	Well Logging	3

PET ENG 4311	Reservoir Characterization	3
PET ENG 4720	Mechanical Earth Modeling	3

Justification for request

Bio Sci changed the course from 2233 to 3233. The proposed change is to reflect this change in the G&G Minor Catalog.

Supporting Documents**Course Reviewer Comments**

ershenb (10/31/19 10:00 am): Per the request of Marek Locmelis, removed the inactive MIN ENG 3812, MIN ENG 4522, MIN ENG 4823, and replaced with MIN ENG 5522 and MIN ENG 5823.

ershenb (10/31/19 10:03 am): Rollback: Please review minor again as 3 inactive MIN ENG courses were removed and two MIN ENG courses were added since your last approval.

ershenb (11/04/19 10:07 am): updated start terms to Fall 2020

Key: 67

Program Change Request

Date Submitted: 10/30/19 4:20 pm

Viewing: **HIST-BA : History BA**

File: 157.19

Last approved: 06/18/18 12:29 pm

Last edit: 10/31/19 10:25 am

Changes proposed by: dewittp

Catalog Pages Using this Program

[History](#)

Start Term

Fall 2020 08/13/2018

Program Code

HIST-BA

Department

History and Political Science

Title

History BA

Program Requirements and Description

In Workflow

1. RHISTORY Chair
2. CCC Secretary
3. Arts & Humanities DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Kristy Giacomelli-Feys

Approval Path

1. 10/31/19 8:48 am
Michael Bruening (bruening):
Approved for
RHISTORY Chair
2. 10/31/19 10:25 am
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 10/31/19 10:41 am
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 11/18/19 2:38 pm
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

History

1. Aug 6, 2014 by
[Lahne Black \(lahne\)](#)

2. Jul 21, 2015 by pantaleoa
3. Jun 27, 2016 by Petra Dewitt (dewittp)
4. Mar 27, 2017 by Petra Dewitt (dewittp)
5. Jun 18, 2018 by Shannon Fogg (sfogg)

Bachelor of Arts History

(In addition to general requirements for bachelor of arts degree.)

HISTORY 1790	Introduction to History	4
HISTORY 1300	American History To 1877	3
HISTORY 1310	American History Since 1877	3
HISTORY 2790	Course HISTORY 2790 Not Found	3
HISTORY 4790	Historiography	3
HISTORY 2791	Historical Research Methods	3
2 American History Electives		6
2 European History Electives		6
3 History Electives		9
2 History Electives		6
Total Credits		30

Note: History majors are also required to complete [HISTORY 1100](#) and [HISTORY 1200](#) as part of the general education requirements for the B.A. In addition, 9 hours of the ~~30~~ [34](#) major hours must be taken at the 3000 or 4000 level.

Note: History majors interested in graduate or professional school should take [HISTORY 4097](#) ~~HISTORY 4097~~ as independent research under the guidance of a faculty member in a short period (one semester).

Note: History majors must complete an experiential learning requirement. They can meet this requirement by taking [HISTORY 4085](#) or [HISTORY 4097](#) ~~HISTORY 4085~~ or ~~HISTORY 4097~~ or study abroad, among other options, in consultation with their advisor.

Note: Entering students will normally take [ENGLISH 1120](#) either semester of the first year.

Secondary Education Emphasis Area

You may earn a B.A. degree in history from Missouri S&T and certification to teach in the schools of Missouri. This program may be completed in four academic years and student teaching is arranged with public schools within 30 miles of the Rolla campus.

Students interested in the certification program should consult with the advisor for history/education majors in the department of history and political science for requirements particular to those interested in this degree. Students should process a change of major form to designate history with an emphasis area of secondary education.

History students must complete **127 128** credit hours, including requirements for teacher education listed in this catalog. A minimum grade of "C" is required by the department in all history and political science courses counted towards this degree. Students must take the following courses:

Communication Skills: 9 hours		
ENGLISH 1120	Exposition And Argumentation	3
ENGLISH 1160	Writing And Research	3
SP&M S 1185	Principles Of Speech	3
Humanities: 12 hours with at least one course from the first three areas		
Art or Music or Theater Appreciation		
Philosophy		
Literature		
Foreign Language		
ETYM 4306	Introduction To Etymology	3
Social Sciences: 18 hours		
POL SCI 1200	American Government	3
Political Science Elective <small>Must be 2XXX or above</small>		3
ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
PSYCH 1101	General Psychology	3
PSYCH 4600	Social Psychology	3
HISTORY 2110	World Regional Geography	3
Natural Sciences: 7 hours = 2 courses and 1 lab		
One course in Physics or Chemistry or Geology and one course in Biology		
One laboratory in any of the above science courses		
Mathematics: 3 hours		
MATH 1120	College Algebra (or higher)	3-5
or MATH 1103	Fundamentals Of Algebra	
or MATH 1140	College Algebra	
Clinical Experience: 16 hours		
EDUC 1104	Teacher Field Experience I	2
EDUC 1164	Teacher Field Experience II	2
EDUC 4299	Student Teaching	12
Professional Requirements: 26 hours		

EDUC 1040	Perspectives In Education	2
EDUC 1174	School Organization and Administration For Teachers	2
ENGLISH 3170	Teaching And Supervising Reading and Writing	3
EDUC 3216	Teaching Reading in Content Area	3
EDUC 3280	Teaching Methods and Skills in Content Areas	6
EDUC 4298	Student Teaching Seminar	1
PSYCH 2300/EDUC 2102	Educational Psychology	3
PSYCH 4310/EDUC 4310	Psychology Of The Exceptional Child	3
PSYCH 3310	Developmental Psychology	3
History Requirements: 36 hours		
HISTORY 1790	Introduction to History	4
HISTORY 1100	Early Western Civilization	3
HISTORY 1200	Modern Western Civilization	3
HISTORY 1300	American History To 1877	3
HISTORY 1310	American History Since 1877	3
HISTORY 2790	Course HISTORY 2790 Not Found	3
HISTORY 2791	Historical Research Methods	3
HISTORY 4790	Historiography	3
American History Electives		6
European History Electives		6
History Electives		6

Justification for request

The history department decided to change how it taught historiography because students need more training in writing and research methods to become true professionals. Instead of having one sophomore-level course that combined research methods with historiography (the history of history) and demanded an immense workload that few students could maintain, the department decided to divide the course into two required courses.

Supporting Documents

Course Reviewer Comments

ershenb (10/31/19 10:25 am): formatting

Key: 157

Course Change Request

New Experimental Course Proposal

Date Submitted: 11/13/19 6:13 pm

Viewing: **BIO SCI 4001.005 : Immunology**

File: 4679

Last edit: 11/19/19 1:48 pm

Changes proposed by: niyogid

Requested	Fall 2020
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4001
Topic ID	005
Experimental Title	Immunology
Experimental Abbreviated Course Title	Immunology
Instructors	Liu, J.

In Workflow

1. **RBIOLSCI Chair**
2. **CCC Secretary**
3. **Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CAT entry
8. Registrar

Approval Path

1. 11/14/19 8:13 am
David Duvernell (duvernell):
Approved for
RBIOLSCI Chair
2. 11/14/19 9:30 am
Brittany Parnell (ershenb):
Approved for CCC
Secretary
3. 11/19/19 12:22 pm
Katie Shannon (shannonk):
Approved for
Sciences DSCC
Chair
4. 11/19/19 1:52 pm
Brittany Parnell (ershenb):
Approved for
Pending CCC
Agenda post

Experimental Catalog Description
Introduction to the immune system, and the role of immunology in diseases and treatments. Major topics include the development of the immune system, including T cell and B cell development, innate and adaptive immunity, autoimmunity and tumor immunology.

Prerequisites
Bio Sci 2213 and Bio Sci 2223; Bio Sci 3313 is recommended.

Field Trip Statement
NA

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
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Justification for new course:

An immunology class was previously offered about 15 years ago, but we discontinued its offering because of limited instructors. A new faculty member on

campus (Jinling Liu) will teach this class starting Fall of 2020. This class will be taken by many students interested in health-related fields.

Semester(s) None
previously taught

Co-Listed

Courses:

Course Reviewer
Comments

Key: 4679

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 11/13/19 12:31 pm

Viewing: **BIO SCI 5001.006 : Forest, Prairie and Wildlife Management and Conservation**

File: 4678

Last edit: 11/19/19 1:51 pm

Changes proposed by: verbler

Requested	Summer 2020
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	5001
Topic ID	006
Experimental Title	Forest, Prairie and Wildlife Management and Conservation
Experimental Abbreviated Course Title	FPW Mgmt & Conservation
Instructors	Robin Verble

In Workflow

1. **RBIOLSCI Chair**
2. **CCC Secretary**
3. **Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CAT entry
8. Registrar

Approval Path

1. 11/13/19 5:21 pm
David Duvernell (duvernellD):
Approved for
RBIOLSCI Chair
2. 11/14/19 9:34 am
Brittany Parnell (ershenb):
Approved for CCC
Secretary
3. 11/19/19 12:22 pm
Katie Shannon (shannonk):
Approved for
Sciences DSCC
Chair
4. 11/19/19 1:52 pm
Brittany Parnell (ershenb):
Approved for
Pending CCC
Agenda post

Experimental Catalog Description	This course will combine field and laboratory components in applied field ecology-- best management practices for forests, prairies and wildlife; common census and survey techniques; life history, identification and ecology of common Missouri wildlife; conservation techniques; harvest management; population dynamics; and vegetation survey and identification.				
Prerequisites	Bio Sci 1113 or Bio Sci 1213; Bio Sci 1223 and Bio Sci 1229.				
Field Trip Statement	This course will be taught exclusively at the Ozark Research Field Station.				
Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0	Total: 3

Justification for new course: As the Ozark Research Field Station develops, one of the master planning goals is to increase the number of courses that are offered at the field station-- This course is part of that effort. The course will also increase the number of laboratory courses offered in the Department of Biological Sciences and broaden the course offerings in the Department. Finally, this course will provide students who are interested in state and federal jobs in natural resources management with the tools, knowledge, and skills that they need to successfully obtain those positions.

Semester(s) previously taught: None at Missouri S&T. I have taught similar versions of this from 2012 -2018 at Texas Tech University.

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4678

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 10/15/19 9:31 pm

Viewing: **CHEM ENG 5001.010 : Introduction to Lubrication and Tribology**

File: 4671

Last edit: 11/18/19 2:24 pm

Changes proposed by: jcwang

Requested	Fall 2020
Effective Change Date	
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5001
Topic ID	010
Experimental Title	Introduction to Lubrication and Tribology
Experimental Abbreviated Course Title	Lubrication & Tribology
Instructors	Jee-Ching Wang

Experimental Catalog Description	Different lubrication regimes encountered in industry and modern technologies with moving mechanical, electromechanical, and biological components are studied. Design and selection of tribological systems are addressed via case studies and topics including friction and wear mechanisms, surface characteristics and coating, lubricant properties and additives.				
Prerequisites	Chem Eng 3141.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3

Justification for new course: The study of friction, wear, and lubrication is of critical importance to various industries and to the function of many mechanical, electromechanical, and biological systems. This field is called tribology and has received increasing attention in recent years because the material and energy costs resulting from high friction and wear have been estimated to be greater than 6% of the Gross National Product. This devoted course is the first on campus to address this need and can benefit interested students from several disciplines.

Semester(s)
previously taught

In Workflow

1. **RCHEMENG Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CAT entry
8. Registrar

Approval Path

1. 10/29/19 2:39 pm Joseph Smith (smithjose): Approved for RCHEMENG Chair
2. 10/29/19 3:51 pm Brittany Parnell (ershenb): Approved for CCC Secretary
3. 11/18/19 8:33 am Stephen Raper (sraper): Approved for Engineering DSCC Chair
4. 11/18/19 2:37 pm Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Co-Listed

Courses:

Course Reviewer **sraper (11/18/19 8:33 am)**: Removed instructor approval in prereqs.

Comments

Key: 4671

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 11/08/19 9:07 am

Viewing: **CIV ENG 5001.004 : Bridge Engineering**

File: 4677

Last edit: 11/18/19 2:27 pm

Changes proposed by: seelyj

Requested Spring 2020

Effective Change

Date

Department Civil, Architectural, and Environmental Engineering

Discipline Civil Engineering (CIV ENG)

Course Number 5001

Topic ID 004

Experimental Bridge Engineering
Title

Experimental Bridge Engineering

Abbreviated

Course Title

Instructors Dr. Grace Yan

Experimental

Catalog

Description

An introduction to Bridge Engineering through a balanced theoretical and practical insight into the art and science of bridges by covering design loads, design philosophy, superstructure/substructure design and bridge rating.

Prerequisites

A grade of "C" or better in Civ Eng 3201, Civ Eng 3210, or Civ Eng 3220.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

To introduce advanced undergraduates and graduates students to Bridge Engineering. Our department does not currently have any course work on this topic.

In Workflow

1. **RCIVILEN Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CAT entry
8. Registrar

Approval Path

1. 11/12/19 2:45 pm
Joel Burken (burken):
Approved for RCIVILEN Chair
2. 11/12/19 4:23 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 11/18/19 8:34 am
Stephen Raper (sraper):
Approved for Engineering DSCC Chair
4. 11/18/19 2:38 pm
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

Semester(s)
previously taught

Co-Listed

Courses:

Course Reviewer **ershenb (11/08/19 9:44 am)**: updated course description per the email request of
Comments Jody Seely.
sraper (11/18/19 8:33 am): Revised prereq statement.

Key: 4677

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 09/27/19 11:02 am

Viewing: **COMP ENG 5001.001 : Introduction to Convex**

Optimization

File: 4670

Last edit: 10/29/19 10:00 am

Changes proposed by: mlr6xd

Requested	Spring 2020
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	5001
Topic ID	001
Experimental Title	Introduction to Convex Optimization
Experimental Abbreviated Course Title	Convex Optimization
Instructors	Ahmad Alsharoa

Experimental Catalog Description
 The course will cover techniques in solving convex optimization problems emerging in engineering and computer science. Topics covered include: convex functions, convex sets, optimization problem formulation, duality and Karush Kuhn Tucker (KKT) conditions.

Prerequisites
 Math 3108.

Field Trip Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
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Justification for new course:

In Workflow

1. RELECENG Chair
2. RCOMPSCI Chair
3. RMATHEMA Chair
4. CCC Secretary
5. Engineering DSCC Chair
6. Pending CCC Agenda post
7. CCC Meeting Agenda
8. Campus Curricula Committee Chair
9. CAT entry
10. Registrar

Approval Path

1. 10/16/19 11:52 am
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 10/17/19 3:08 pm
Bruce McMillin (ff): Approved for RCOMPSCI Chair
3. 10/29/19 9:56 am
vsam: Approved for RMATHEMA Chair
4. 10/29/19 10:00 am
Brittany Parnell (ershenb): Approved for CCC Secretary
5. 11/18/19 8:35 am
Stephen Raper (sraper):

This is an area that we want to expand.

Co-list: ELEC ENG 5001 Special Topics

COMP SCI 5001 Special Topics

MATH 5001 Special Topics

Semester(s)

previously taught

None

Co-Listed

Courses:

Approved for
Engineering DSCC
Chair

6. 11/18/19 2:38 pm

Brittany Parnell

(ershenb):

Approved for

Pending CCC

Agenda post

Course Reviewer **ershenb (10/15/19 3:27 pm)**: moved ELEC ENG 5001 and COMP SCI 5001 to the
Comments justifications section per the EC process (CourseLeaf technicalities)

Key: 4670

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 11/14/19 2:15 pm

Viewing: **HISTORY 4001.004 : Historical Representation in Video Games**

File: 4680

Last edit: 11/18/19 2:32 pm

Changes proposed by: behrendta

Requested	Fall 2020
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	4001
Topic ID	004
Experimental Title	Historical Representation in Video Games
Experimental Abbreviated Course Title	Hist Repr in Video Games
Instructors	Andrew Behrendt

Experimental Catalog Description	This course explores video games as a medium for representing the past. By playing, watching, and analyzing a wide array of games, including popular series, students will learn core concepts in historiography and the philosophy of history. No previous gaming experience required.				
Prerequisites	Either History 1300, History 1310, History 1100, or History 1200.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3

Justification for new course: This course is being developed as part of a 2019-2020 eFellows grant.

HISTORICAL REPRESENTATION IN VIDEO GAMES will be an entirely new blended course open to all S&T students who have taken any of the entry-level history courses. It taps into the widespread popularity of historically-themed video games as a way to teach students major concepts in historiography (i.e. the study of history-writing, its methods, and its practitioners), the philosophy of history, and media studies. Its goal is to encourage students to think more critically about how the media they consume makes statements, both explicit and implicit, about the nature of humanity's past. It will give students the opportunity to develop

In Workflow

1. RHISTORY Chair
2. CCC Secretary
3. Arts & Humanities DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. CAT entry
8. Registrar

Approval Path

1. 11/14/19 2:52 pm Michael Bruening (bruening): Approved for RHISTORY Chair
2. 11/14/19 4:11 pm Brittany Parnell (ershenb): Approved for CCC Secretary
3. 11/14/19 4:14 pm Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 11/18/19 2:38 pm Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Humanities skills (creating, presenting on, and writing about digital media) using STEM tools in a flexible course format.

FROM THE CURRENT COURSE DESCRIPTION, DRAFTED WITH CAFE DESIGNERS:
History is more than a matter of documenting and explaining the events of the past; it is also a matter of how we choose to represent them. Whether it is done in a textbook, a scholarly monograph, a work of art, or everyday conversation, historical representation is a deliberate and creative act, resting on assumptions of what the past was like and how history “happens.” Buried within every attempt to depict the past is a philosophy of history; and all of these attempts together make up the intellectual history of historical representation, which specialists call historiography. In this course, we will explore video games as a medium of historical representation and stake out the place of video games within the historiographical tradition. We will play, watch, and discuss a wide array of history-based games—which includes popular franchises such as Civilization, Assassin’s Creed, and Red Dead Redemption, as well as lesser known and vintage titles—critically examining the philosophies of history at work behind the pixels, and discovering how “playing the past” uniquely shapes our understanding of it.

Semester(s) N/A
previously taught

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4680

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 10/24/19 10:57 am

Viewing: **PHILOS 2001.004 : Philosophy of the City**

File: 4674

Last edit: 11/18/19 2:36 pm

Changes proposed by: karmannc

Requested Summer 2020
Effective Change Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 2001

Topic ID 004

Experimental Title Philosophy of the City

Experimental Abbreviated Course Title Philosophy of the City

Instructors Shane Epting

Experimental Catalog Description
This course examines how humankind's thinking about urban environments has progressed by making "the city" an object of study and employing the tools of philosophy to question its metaphysical, political, ethical, and aesthetic dimensions. It uses philosophical analysis to understand topics such as zoning, housing, transportation, and infrastructure.

Prerequisites English 1120 or any philosophy class.

Field Trip Statement

Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Justification for new course:
Firstly, cities have been a recurrent topic throughout the history of philosophy. Yet, until recently, contemporary philosophers have neglected to give them sufficient attention. During the last decade, there has been an increasing trend in professional philosophy to study cities, employing lessons throughout the history of philosophy to understand their many dimensions. This course aims to keep students current on the most recent advancements in the discipline of philosophy.
Secondly, research on the future of cities at Missouri S & T has been on the cutting edge with trailblazing initiatives such as the Smart Living signature area, which "seamlessly improves quality of life by transforming home, workplace, transportation and energy infrastructures into "smart" environments." This course complements and bolsters this kind of research through teaching students about the

In Workflow

1. **RPHILOS Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CAT entry
8. Registrar

Approval Path

1. 10/24/19 4:49 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 10/28/19 9:08 am
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 10/28/19 10:25 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair
4. 11/18/19 2:38 pm
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

broader social, political, and ethical impacts of topics such as smart living. Thirdly, this course will help prepare S & T students for a dynamic world that requires leaders who not only understand the physical challenges of designing cities for human flourishing, but it will enhance their education though teaching them about the values that underpin how they address such issues. For instance, the majority of Earth's population now lives in cities, and many researchers predict that this trend will only increase. In turn, urban environments will also require additional attention to address the numerous challenges that this situation currently presents and will continue to raise. A course of this caliber will ready them to take on these challenges.

Semester(s)
previously taught

Co-Listed
Courses:

Course Reviewer **dewittp (10/28/19 10:25 am):** After conversation with instructor, removed
Comments sophomore standing from prerequisite.

Key: 4674

[Preview Bridge](#)