



**Minutes of the Campus Curricula Committee Meeting**

**January 8, 2020**

**9:00am, Bertelsmeyer 110H**

**(For Faculty Senate Meeting of January 23, 2020)**

**Attendees:** Steve Raper, Petra Dewitt, Katie Shannon, Matt Insall, Cecil Eng Huang Chua, Michael Davis, Kyle Perry, Kristy Giacomelli-Feys and Brittany Parnell

The following curriculum forms were discussed and approved:

**Course Change Forms:**

File: 649.6	COMP ENG 2210: Introduction to Digital Logic
File: 120.1	MATH 1110: Mathematical Reasoning and Modeling
File: 1656.5	MUSIC 3252: History and Analysis of Music II
File: 2009.5	PHYSICS 1119: General Physics Laboratory
File: 284.1	PHYSICS 1145: College Physics I
File: 1738.5	PHYSICS 2119: General Physics Laboratory
File: 1971.1	PHYSICS 2145: College Physics II
File: 652.3	STAT 3425: Introduction to Biostatistics

**Degree Change Forms:**

File: 242.10	HISTORY-BS: Bachelor of Science in History
File: 115.37	PHYSIC-BS: Physics BS

**Experimental Course Forms:**

File: 4685	BIO SCI 4001.006: General Virology Lab
File: 4686	MATH 5001.003: Mathematics of Medical Imaging
File: 4682	PHYSICS 5001.001: Introduction to Atomic, Molecular, and Optical Physics
File: 4681	PSYCH 3001.004: Rationality: Scientific Thinking in Everyday Life
File: 4683	STAT 2001.001: Introductory Applied Statistical Methods

The remaining Spring 2020 Curricula meeting dates were discussed and approved; meetings will continue to be held on the specified Wednesdays, but in Fulton 120 from 8:15am-8:45am.

The Campus Curricula Committee tabled further edits to the Minor Creation Policy in regards to the curriculum approval process for graduate and undergraduate certificates.



The meeting adjourned at 9:35am.

A handwritten signature in black ink that reads "Stephen A. Raper".

---

Stephen A. Raper, Chair  
Missouri S&T Campus Curricula Committee

# Course Change Request

Date Submitted: 11/04/19 2:10 pm

Viewing: **COMP ENG 2210 : Introduction to Digital Logic**

File: 649.6

Last approved: 02/04/19 5:02 am

Last edit: 11/19/19 2:42 pm

Changes proposed by: stanleyj

Programs referencing this course	<a href="#">ARC ENG-BS: Architectural Engineering BS</a> <a href="#">CP ENG-BS: Computer Engineering BS</a> <a href="#">EL ENG-BS: Electrical Engineering BS</a> <a href="#">CP ENG-MI: Computer Engineering Minor</a> <a href="#">CMP SC-BS: Computer Science BS</a>
Other Courses referencing this course	<p>In The Prerequisites: _____</p> <a href="#">COMP ENG 2211 : Computer Engineering Laboratory</a> <a href="#">COMP ENG 3110 : Computer Organization and Design</a> <a href="#">COMP ENG 3150 : Introduction to Microcontrollers and Embedded System Design</a> <a href="#">COMP ENG 3151 : Digital Engineering Lab II</a> <a href="#">COMP ENG 4096 : Computer Engineering Senior Project I</a> <a href="#">COMP ENG 5210 : Introduction To VLSI Design</a> <a href="#">COMP ENG 5220 : Digital System Modeling</a> <a href="#">COMP ENG 5230 : Optical Computing</a> <a href="#">COMP ENG 5510 : Fault-Tolerant Digital Systems</a> <a href="#">COMP ENG 5803 : Mathematical Logic I</a> <a href="#">COMP ENG 6210 : Digital Logic</a> <a href="#">COMP SCI 3800 : Introduction to Operating Systems</a> <a href="#">COMP SCI 3803 : Computer Organization</a> <a href="#">COMP SCI 5203 : Mathematical Logic I</a> <a href="#">ELEC ENG 3100 : Electronics I</a> <a href="#">ELEC ENG 3101 : Electronics I Laboratory</a> <a href="#">ELEC ENG 4096 : Electrical Engineering Senior Project I</a> <a href="#">ELEC ENG 5250 : Optical Computing</a> <a href="#">MATH 5154 : Mathematical Logic I</a> <a href="#">PHILOS 3254 : Symbolic Logic in Argumentation</a> <a href="#">PHILOS 4354 : Mathematical Logic I</a>

Requested	Fall <del>2020</del> 2019
Effective Change	
Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)

## In Workflow

1. RELECENG 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. 11/05/19 6:33 am  
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 11/05/19 8:24 am  
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 11/18/19 8:35 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

Course Number 2210  
 Title Introduction to Digital Logic  
 Abbreviated Intro to Digital Logic  
 Course Title

Catalog Description Examines the core components from which digital systems are designed, constructed, and analyzed. Topics include binary numbers, truth tables, Boolean algebra, Karnaugh maps, combinational logic, digital components, CMOS, programmable logic devices, and sequential circuits.

Prerequisites Accompanied by Comp Eng **2211 for Computer Engineering and Electrical Engineering majors.** ~~2211.~~

Field Trip Statement

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

Required for Majors Yes

Elective for Majors No

Justification for change: Comp Eng 2211 is a required laboratory course for Computer and Electrical Engineering majors. Out of department students are not required to take this laboratory course.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer **sraper (11/18/19 8:35 am):** Revised prereq statement.  
 Comments **ershenb (11/19/19 2:43 pm):** Rollback: COMP ENG 2211 not approved yet through workflow( will put them on the same agenda).

5. 11/19/19 2:43 pm  
Brittany Parnell (ershenb):  
Rollback to Pending CCC Agenda post for CCC Meeting Agenda
6. 12/23/19 8:33 am  
Brittany Parnell (ershenb):  
Approved for Pending CCC Agenda post
7. 01/08/20 9:55 am  
Brittany Parnell (ershenb):  
Approved for CCC Meeting Agenda
8. 01/08/20 10:05 am  
Stephen Raper (sraper):  
Approved for Campus Curricula Committee Chair

#### History

1. Feb 9, 2015 by stanleyj (649.1)
2. Feb 4, 2019 by ershenb (649.2)

Key: 649

[Preview Bridge](#)

# Course Change Request

Date Submitted: 11/22/19 10:26 am

Viewing: **MATH 1110 : Mathematical Reasoning and Modeling**

## ~~Introduction To Mathematical Ideas~~

File: 120.1

Last edit: 11/25/19 4:05 pm

Changes proposed by: prunnion

Requested **Fall 2020** ~~08/01/2014~~

Effective Change  
Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 1110

Title **Mathematical Reasoning and Modeling** ~~Introduction To Mathematical Ideas~~

Abbreviated **Mathematical Reasoning**

Course Title ~~Introd To Math Ideas~~

Catalog Description ~~A course for non-science majors, including liberal arts and education majors.~~ **Designed for non-STEM majors, this course provides a comprehensive overview A study of the reasoning skills required nature of mathematics and its relation to process, reflect upon, and apply quantitative information in making decisions. western culture, number systems, sets, functions, and selected topics from algebra, computer science and other areas of mathematics.** **Topics include ratios, rates, percentages, units, descriptive statistics, linear and exponential modeling, correlation, logic, and probability. Technology is emphasized.**

Prerequisites **Entrance requirements.** ~~Two years high school mathematics.~~

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: These changes are to better align the existing course with the Core42 and Missouri Mathematics Pathways standards. These changes will allow us to submit this course for DESE approval for certain education emphasis students. While our current description could be considered adequate for what we're doing, the new description is more informative to students as they consider this course.

### In Workflow

1. **RMATHEMA 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. CAT entry
11. Peoplesoft

### Approval Path

1. 11/22/19 11:18 am  
vsam: Approved for RMATHEMA Chair
2. 11/25/19 4:05 pm  
Brittany Parnell (ershenb):  
Approved for CCC Secretary
3. 12/10/19 3:18 pm  
Katie Shannon (shannonk):  
Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb):  
Approved for Pending CCC

Semesters  
previously  
offered as an  
experimental  
course  
Co-Listed  
Courses:

Course Reviewer  
Comments

Key: 120

Agenda post  
5. 01/08/20 9:57 am  
Brittany Parnell  
(ershenb):  
Approved for CCC  
Meeting Agenda  
6. 01/08/20 10:05  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair

[Preview Bridge](#)

# Course Change Request

Date Submitted: 11/21/19 10:56 am

Viewing: **MUSIC 3252 : History and Analysis of Music II**

File: 1656.5

Last approved: 05/24/16 4:57 am

Last edit: 12/11/19 9:55 am

Changes proposed by: karmannc

Requested **Fall 2020** ~~01/12/2016~~

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Music (MUSIC)

Course Number 3252

Title History and Analysis of Music II

Abbreviated Hist & Analysis Mus II

Course Title

Catalog Description General survey of history of music from the 18th century to the present. Score reading required.

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: Adding co-listed history course. Approved by Dr. Michael Bruening.

Semesters previously offered as an experimental course

Co-Listed Courses: **History 3722 - Course Not Found**

Course Reviewer  
Comments

## In Workflow

1. **RPHILOSO 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. 12/11/19 9:51 am  
Audra Merfeld-Langston (audram):  
Approved for RPHILOSO Chair
2. 12/11/19 9:55 am  
Brittany Parnell (ershenb):  
Approved for CCC Secretary
3. 12/11/19 10:11 am  
Petra Dewitt (dewittp):  
Approved for Arts & Humanities DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb):

Key: 1656

Approved for  
Pending CCC  
Agenda post

5. 01/08/20 9:57 am

Brittany Parnell

(ershenb):

Approved for CCC  
Meeting Agenda

6. 01/08/20 10:05

am

Stephen Raper

(sraper):

Approved for  
Campus Curricula  
Committee Chair

### History

1. May 24, 2016 by  
denises (1656.1)

[Preview Bridge](#)

# Course Change Request

Date Submitted: 12/09/19 2:34 pm

Viewing: **PHYSICS 1119 : General Physics Laboratory**

File: 2009.5

Last approved: 05/06/16 3:34 am

Last edit: 12/09/19 2:34 pm

Changes proposed by: ershenb

Programs referencing this course

- [PRE-MED-MI: Pre-Medicine Minor](#)
- [AP MATH-BS: Applied Mathematics BS](#)
- [BIO SC-BA: Biological Sciences BA](#)
- [BIO SC-BS: Biological Sciences BS](#)
- [CP ENG-BS: Computer Engineering BS](#)
- [EL ENG-BS: Electrical Engineering BS](#)
- [GL&GPH-BS: Geology and Geophysics BS](#)

Requested **Fall 2020** ~~01/12/2016~~

Effective Change Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 1119

Title General Physics Laboratory

Abbreviated Course Title General Physics Lab

Catalog Description Experiments related to topics studied in Physics **1111**. ~~1111 and Physics 1145-~~

Prerequisites Preceded or accompanied by ~~either~~ Physics **1111**. ~~1111 or Physics 1145-~~

Field Trip Statement

Credit Hours LEC: 0      LAB: 1      IND: 0      RSD: 0      Total: 1

Required for Majors No

Elective for Majors No

Justification for change: Currently, students enrolled in Physics 1145 also take the Physics 1119 Lab. We have submitted a CC form combining the lecture and lab into a single 4-hour Physics 1145

## In Workflow

1. **RPHYSICS 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. CAT entry
11. Peoplesoft

## Approval Path

1. 12/09/19 2:36 pm  
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
2. 12/11/19 8:50 am  
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/17/19 3:00 pm  
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

course. The present CC form just removes the reference to Physics1145 from the description of Physics 1119.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

Course Reviewer **ershenb (12/09/19 2:34 pm)**: Submitted per the request of Dr. Vojta for CourseLeaf  
Comments technical issues.

Key: 2009

5. 01/08/20 9:58 am  
Brittany Parnell  
(ershenb):  
Approved for CCC  
Meeting Agenda
6. 01/08/20 10:05  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair

### History

1. May 6, 2016 by  
waddill (2009.1)

[Preview Bridge](#)

# Course Change Request

Date Submitted: 12/09/19 1:20 pm

Viewing: **PHYSICS 1145 : College Physics I**

File: 284.1

Last edit: 12/09/19 1:20 pm

Changes proposed by: waddill

Programs referencing this course	<a href="#">PRE-MED-MI: Pre-Medicine Minor</a> <a href="#">BIO SC-BA: Biological Sciences BA</a> <a href="#">BIO SC-BS: Biological Sciences BS</a>
Other Courses referencing this course	<u>In The Catalog Description:</u> <a href="#">PHYSICS 1119 : General Physics Laboratory</a> <u>In The Prerequisites:</u> <a href="#">PHYSICS 1119 : General Physics Laboratory</a> <a href="#">PHYSICS 2145 : College Physics II</a>

Requested **Fall 2020** ~~08/14/2018~~

Effective Change Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 1145

Title College Physics I

Abbreviated Course Title College Physics I

Catalog Description An introduction to the ideas of physics, including mechanics, heat, and sound.

Prerequisites Math 1160 and either of Math 1120 or Math 1140.

Field Trip Statement

Credit Hours LEC: 3      LAB: 1 ~~0~~      IND: 0      RSD: 0      Total: 4 ~~3~~

Required for Majors No

Elective for Majors No

Justification for change: In the current version of 1145 students must take a separate lab course (Physics 1119). In the lab, students perform twice as many labs as students who take the

## In Workflow

1. RPHYSICS 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. CAT entry
11. Peoplesoft

## Approval Path

1. 12/09/19 1:22 pm  
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
2. 12/11/19 8:50 am  
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/17/19 3:00 pm  
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

introductory physics for engineers (Physics 1135). This change combines lecture and lab (1145 and 1119 respectively) into a single 4 hour course.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

Course Reviewer  
Comments

- 5. 01/08/20 10:01  
am  
Brittany Parnell  
(ershenb):  
Approved for CCC  
Meeting Agenda
- 6. 01/08/20 10:05  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair

Key: 284

[Preview Bridge](#)

# Course Change Request

Date Submitted: 12/09/19 1:24 pm

Viewing: **PHYSICS 2119 : General Physics Laboratory**

File: 1738.5

Last approved: 05/06/16 3:33 am

Last edit: 12/09/19 2:32 pm

Changes proposed by: waddill

Programs referencing this course

- [PRE-MED-MI: Pre-Medicine Minor](#)
- [AP MATH-BS: Applied Mathematics BS](#)
- [BIO SC-BA: Biological Sciences BA](#)
- [BIO SC-BS: Biological Sciences BS](#)
- [CP ENG-BS: Computer Engineering BS](#)
- [EL ENG-BS: Electrical Engineering BS](#)
- [CMP SC-BS: Computer Science BS](#)
- [GL&GPH-BS: Geology and Geophysics BS](#)

Requested **Fall 2020** ~~05/30/2016~~

Effective Change Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 2119

Title General Physics Laboratory

Abbreviated Course Title General Physics Lab

Catalog Description Experiments related to topics studied in Physics **2111**. ~~2111 and Physics 2145-~~Prerequisites Preceded or accompanied by ~~either~~ Physics **2111**. ~~2111 or Physics 2145-~~

Field Trip Statement

Credit Hours LEC: 0      LAB: 1      IND: 0      RSD: 0      Total: 1

Required for Majors No

Elective for Majors No

Justification for change: This lab course was required for both Physics 2111 and Physics 2145. We have submitted a change for Physics 2145 that combines lecture and lab into a single

## In Workflow

1. RPHYSICS 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. CAT entry
11. Peoplesoft

## Approval Path

1. 12/09/19 1:25 pm  
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
2. 12/11/19 8:50 am  
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/17/19 3:01 pm  
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

course. Thus 2119 is no longer required for Physics 2145. Physics 2145

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

Course Reviewer **ershenb (12/09/19 2:32 pm):** removed "either" from prereq per Dr. Vojta.  
Comments

Key: 1738

- 5. 01/08/20 10:02  
am  
Brittany Parnell  
(ershenb):  
Approved for CCC  
Meeting Agenda
- 6. 01/08/20 10:05  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair

### History

- 1. May 6, 2016 by  
waddill (1738.1)

[Preview Bridge](#)

# Course Change Request

Date Submitted: 12/09/19 1:21 pm

Viewing: **PHYSICS 2145 : College Physics II**

File: 1971.1

Last edit: 12/09/19 1:21 pm

Changes proposed by: waddill

Programs referencing this course	<a href="#">PRE-MED-MI: Pre-Medicine Minor</a> <a href="#">BIO SC-BA: Biological Sciences BA</a> <a href="#">BIO SC-BS: Biological Sciences BS</a> <a href="#">CMP SC-BS: Computer Science BS</a>
Other Courses referencing this course	In The Catalog Description: <a href="#">PHYSICS 2119 : General Physics Laboratory.</a> In The Prerequisites: <a href="#">PHYSICS 2119 : General Physics Laboratory.</a>

Requested **Fall 2020** ~~08/14/2018~~

Effective Change Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 2145

Title College Physics II

Abbreviated Course Title College Physics II

Catalog Description	An introduction to the ideas of physics, including electricity, magnetism, and light.				
Prerequisites	Math 1160, Physics 1145.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: <b>1 0</b>	IND: 0	RSD: 0	Total: <b>4 3</b>
Required for Majors	No				
Elective for Majors	No				

Justification for change: In the current version of 2145 students must take a separate lab course (Physics 2119). In the lab, students perform twice as many labs as students who take the

## In Workflow

1. RPHYSICS 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. CAT entry
11. Peoplesoft

## Approval Path

1. 12/09/19 1:22 pm  
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
2. 12/11/19 8:51 am  
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/17/19 3:01 pm  
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

introductory physics for engineers (Physics 2135). This change combines lecture and lab (2145 and 2119 respectively) into a single 4 hour course.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

Course Reviewer  
Comments

- 5. 01/08/20 10:02  
am  
Brittany Parnell  
(ershenb):  
Approved for CCC  
Meeting Agenda
- 6. 01/08/20 10:05  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair

Key: 1971

[Preview Bridge](#)

# Course Change Request

Date Submitted: 11/22/19 3:41 pm

Viewing: **STAT 3425 5425: Introduction to Biostatistics**

File: 652.3

Last approved: 01/13/17 3:15 am

Last edit: 12/10/19 3:19 pm

Changes proposed by: prunnion

Requested **Fall 2020** ~~08/14/2017~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Statistics (STAT)

Course Number **3425 5425**

Title Introduction to Biostatistics

Abbreviated **Intro** ~~Introduction~~ to

Course Title Biostatistics

**Catalog Description** Introduction to common biostatistical methods for designing research studies, collecting and analyzing data, with application to problems originating from the biological, environmental, and health sciences. Topics include randomization, means comparisons, ANOVA, regression, and analysis of count data.

**Prerequisites** A grade of "C" or better in Math 1120, Math 1140, Math 1208, Math 1212, or Math 1214.

**Field Trip Statement**

**Credit Hours** LEC: 3      LAB: 1      IND: 0      RSD: 0      Total: 4

**Required for Majors** No

**Elective for Majors** Yes

**Justification for change:** The biology department requires this course for their BS program. In order to align this course better within their curriculum, they would prefer for it to be a 3000 level course. This change would also better align with how the course is being taught.

Semesters previously offered as an experimental course

## In Workflow

1. **RMATHEMA 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. CAT entry
11. Peoplesoft

## Approval Path

1. 11/22/19 8:17 pm vsam: Approved for RMATHEMA Chair
2. 11/25/19 4:18 pm Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/10/19 3:19 pm Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Co-Listed

Courses:

Course Reviewer

Comments

Key: 652

- 5. 01/08/20 10:22 am  
Brittany Parnell (ershenb):  
Approved for CCC Meeting Agenda
- 6. 01/08/20 10:26 am  
Stephen Raper (sraper):  
Approved for Campus Curricula Committee Chair

### History

- 1. Jan 13, 2017 by imorgan (652.1)

[Preview Bridge](#)

## Program Change Request

Date Submitted: 10/30/19 4:22 pm

Viewing: **HISTORY-BS : Bachelor of Science in History**

File: 242.10

Last approved: 12/01/16 3:47 pm

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

Changes proposed by: dewittp

Catalog Pages Using this Program

[History](#)

Start Term

**Fall 2020** ~~08/14/2017~~

Program Code

HISTORY-BS

Department

History and Political Science

Title

Bachelor of Science in History

### 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 8:50 am  
Michael Bruening  
(bruening):  
Approved for  
RHISTORY Chair
2. 10/31/19 10:49 am  
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
5. 01/08/20 10:23 am  
Brittany Parnell  
(ershenb):  
Approved for CCC  
Meeting Agenda
6. 01/08/20 10:26 am  
Stephen Raper  
(sraper): Approved  
for Campus  
Curricula  
Committee Chair

### History

1. Jun 27, 2016 by  
[Petra Dewitt](#)  
(dewittp)
2. Jul 27, 2016 by  
[Crystal Wilson](#)  
(wilsoncry)
3. Dec 1, 2016 by  
[Petra Dewitt](#)

## Bachelor of Science History

Students must take a minimum of 120 hours for a Bachelor of Science degree in history, and obtain a grade point average of 2.0. These requirements for the B.S. are in addition to credit received for basic ROTC.

The B.S. in history requires the following:

1. **ENGLISH 1120** ~~ENGLISH 1120~~ (entering students will normally take **ENGLISH 1120** ~~ENGLISH 1120~~ within their first year of study) and one other writing intensive course outside their major, which may include **ENGLISH 1160**, **ENGLISH 1170**, ~~ENGLISH 1160~~, ~~ENGLISH 1170~~, or **ENGLISH 3560**, ~~ENGLISH 3560~~. (6 hours)
2. Math and Sciences. The general requirements for a B.S. call for at least 18 hours in biological, physical (chemistry, geology, physics), and mathematical (mathematics, statistics, computer science, and information science and technology) sciences. The B.S. in history requires at least one course from each of the biological and physical sciences, one lab, and at least one math course at the level of college algebra or higher. In addition to these requirements, students may count **STAT 1115**, ~~STAT 1115~~, up to 3 hours from psychology classes (**PSYCH 2200** (~~PSYCH 2200~~ preferred), and up to 3 hours from history of science and technology classes (**HISTORY 2510**, **HISTORY 3510**, ~~HISTORY 2510~~, ~~HISTORY 3510~~, or **HISTORY 3530**), ~~HISTORY 2530~~), but may not use them to satisfy another requirement. (18 hours)
3. Humanities. Students must take 12 hours in humanities other than history with at least one course from literature, philosophy, and fine arts (Art, Music, or Theater Appreciation). Students may take courses in language and humanities other than history to meet the 12 hours requirement. (12 hours)
4. Social Sciences. Students must take 12 hours in social sciences. Students must take **POL SCI 1200** ~~POL SCI 1200~~ and at least one course in two from the three areas: economics, political science, and psychology. At the discretion of the major adviser, students may transfer up to 3 hours of Sociology to meet the 12 hours requirement. (12 hours)
5. History. Students must take **36** ~~37~~ hours in required history courses, including **HISTORY 1100**, **HISTORY 1200**, **HISTORY 1300**, **HISTORY 1310**, **HISTORY 2791**, ~~HISTORY 1790~~, ~~HISTORY 1100~~, ~~HISTORY 1200~~, ~~HISTORY 1300~~, ~~HISTORY 1310~~, and **HISTORY 4790** (**18** ~~HISTORY 2790~~ ~~16~~ hours) and at least **18** ~~21~~ hours in history electives, including at least 6 hours in American history and at least 6 hours in European history. Nine of these **18** ~~21~~ hours of history electives must be at or above the 3000 level. The student must earn a grade of C or better in these required courses. (**36** ~~37~~ hours)
6. Electives Credit. Each student will elect sufficient additional courses to complete a minimum of 120 credit hours, which may include up to 12 hours in engineering courses at the discretion of the major adviser. At least 9 hours of these electives must be at the 3000 or above level, although substitutions may be permitted at the discretion of the major adviser. All electives must accumulate to at least a 2.0 grade point average.

### 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

**bruening (10/31/19 8:50 am):** In point 5, I changed "Nine of these 21 hours of history electives..." to "Nine of these 18 hours of history electives..."

**ershenb (10/31/19 10:40 am):** formatting

**ershenb (10/31/19 10:46 am):** In requirement 2, corrected History 2530 to its current number History 3530.

Key: 242

## Program Change Request

Date Submitted: 11/20/19 11:26 am

Viewing: **PHYSIC-BS : Physics BS**

File: 115.37

Last approved: 06/14/19 2:14 pm

Last edit: 11/20/19 1:43 pm

Changes proposed by: vojtat

Catalog Pages Using this Program

[Physics](#)

Start Term

Fall **2020** ~~2019~~

Program Code

PHYSIC-BS

Department

Physics

Title

Physics BS

### Program Requirements and Description

### In Workflow

1. RPHYSICS 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. 11/20/19 11:27 am  
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
2. 11/20/19 1:43 pm  
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/10/19 3:18 pm  
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
5. 01/08/20 10:23 am  
Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
6. 01/08/20 10:26 am  
Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

### History

1. May 6, 2014 by waddill
2. Jul 21, 2015 by pantaleoa
3. Jun 27, 2016 by waddill
4. Jun 18, 2018 by Pamela Crabtree

(crabtree)  
 5. Jun 26, 2018 by  
 Crystal Wilson  
 (wilsoncry)  
 6. Jun 14, 2019 by  
 Thomas Vojta  
 (vojtat)

## Bachelor of Science Physics

A minimum of 128 credit hours is required for a bachelor of science degree in physics and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for algebra, trigonometry, and basic ROTC.

The physics curriculum requires twelve semester hours in humanities, exclusive of foreign language, and must include [ENGLISH 1160](#) or [ENGLISH 3560](#). A minimum of nine semester hours is required in social sciences, including either [HISTORY 1300](#), [HISTORY 1310](#), [HISTORY 1200](#), or [POL SCI 1200](#). Specific requirements for the bachelor degree are outlined in the sample program listed below

Freshman Year			
First Semester	Credits	Second Semester	Credits
<a href="#">CHEM 1310</a>	4	<a href="#">CHEM 1320</a>	3
<a href="#">CHEM 1319</a>	1	<a href="#">HISTORY 1200</a> , or <a href="#">1300</a> , or <a href="#">1310</a> , or <a href="#">POL SCI 1200</a>	3
<a href="#">CHEM 1100</a>	1	<a href="#">PHYSICS 1135</a>	4
<a href="#">ENGLISH 1120</a>	3	<a href="#">MATH 1215</a>	4
<a href="#">PHYSICS 1101</a>	1	Electives <sup>1</sup>	2
<a href="#">MATH 1214</a>	4		
	14		16
Sophomore Year			
First Semester	Credits	Second Semester	Credits
<a href="#">ENGLISH 1160</a>	3	<a href="#">MATH 3304</a>	3
<a href="#">MATH 2222</a>	4	<a href="#">PHYSICS 2311</a> or <a href="#">2305</a>	3
<del>COMP SCI 1570</del> & <del>COMP SCI 1580</del> <sup>4</sup>	4	<a href="#">PHYSICS 2129</a>	3
Elective <sup>1</sup>	3	<a href="#">PHYSICS 2401</a>	3
<a href="#">COMP SCI 1500</a> or <a href="#">1972</a> and <a href="#">1982</a>	3	Elective <sup>1</sup>	3
<a href="#">PHYSICS 2135</a>	4		
	17		15
Junior Year			
First Semester	Credits	Second Semester	Credits
<a href="#">PHYSICS 3201</a>	3	<a href="#">PHYSICS 3211</a>	3
<a href="#">PHYSICS 3119</a>	3	<a href="#">PHYSICS 3129</a>	3
<a href="#">PHYSICS 3311</a>	3	Math/Stat Elective <sup>2</sup>	3
Math/Stat Elective <sup>2</sup>	3	Electives <sup>1</sup>	7
Electives <sup>1</sup>	6		
	18		16
Senior Year			
First Semester	Credits	Second Semester	Credits
<a href="#">PHYSICS 4211</a>	3	<a href="#">PHYSICS 4311</a>	3
<a href="#">PHYSICS 4301</a>	3	Elective-Humanities (3000 level) <sup>1</sup>	3
Physics Elective <sup>3</sup>	3	Physics Elective <sup>3</sup>	3
Electives <sup>1</sup>	7	Electives <sup>1</sup>	7
	16		16
Total Credits: 128			

**Note:** The minimum credit hours required for a bachelor of science in physics is 128 hours. No more than two of the required physics and mathematics courses with a grade of "D" may be used to meet graduation requirements. Upon petition to and approval by the physics faculty, three semester hours of advanced ROTC (military science or aerospace credit studies) credit can be counted as elective credit to meet requirements for graduation.

1	Electives, in addition to the math/stat electives <sup>2</sup> and Physics electives <sup>3</sup> , shall include six hours of social studies and nine hours of humanities, at least three of which must be literature and at least three of which must be at the 3000 level or above not including Special Problems courses ( <a href="#">PHILOS 4345</a> recommended). 19 hours of free electives may be used to develop an emphasis area. 18 hours of elective credit shall be in courses at the 3000 level or above.
2	Six hours of mathematics or statistics beyond <a href="#">MATH 3304</a> are required. <a href="#">MATH 3108</a> , <a href="#">MATH 5222</a> , <a href="#">MATH 5325</a> , or <a href="#">MATH 5351</a> are recommended.
3	In addition to the specific physics courses listed ( <a href="#">PHYSICS 3311</a> , <a href="#">PHYSICS 3201</a> , <a href="#">PHYSICS 4311</a> , <a href="#">PHYSICS 4211</a> , <a href="#">PHYSICS 3119</a> , <a href="#">PHYSICS 3129</a> , and <a href="#">PHYSICS 4301</a> ) two other physics 3000 level or higher courses are required.
4	<del>Alternatively students may substitute the combination GOMP SCI 1970 &amp; GOMP SCI 1980 or the combination GOMP SCI 1971 &amp; GOMP SCI 1981 for GOMP SCI 1570 &amp; GOMP SCI 1580; note that this will require one less credit hour than the option listed in the sample schedule.</del>

## Emphasis in Secondary Education

Students may develop an emphasis area in secondary education that will allow them to teach physics in grades 9-12 in **Missouri**. ~~Missouri. Please contact the Department of Teacher Education for a complete list of requirements.~~ **Please contact the Department of Teacher Education for a complete list of requirements.**

a. Professional requirements courses:

<a href="#">EDUC 1040</a>	Perspectives In Education	2
<a href="#">EDUC 1174</a>	School Organization and Administration For Teachers	2
<a href="#">EDUC 3216</a>	Teaching Reading in Content Area	3
<a href="#">ENGLISH 3170</a>	Teaching And Supervising Reading and Writing	3
<a href="#">EDUC 3280</a>	Teaching Methods and Skills in Content Areas	6
<a href="#">EDUC 4298</a>	Student Teaching Seminar	1
<a href="#">PSYCH 2300</a>	Educational Psychology	3
or <a href="#">EDUC 2102</a>	Educational Psychology	
<a href="#">PSYCH 3310</a>	Developmental Psychology	3
<a href="#">PSYCH 4310</a>	Psychology Of The Exceptional Child	3
or <a href="#">EDUC 4310</a>	Psychology Of The Exceptional Child	
Fifteen of these credit hours may be used to substitute for six hours of mathematics electives, six hours of physics electives, and three hours of computer science courses.		

b. Clinical experience courses:

<a href="#">EDUC 1104</a>	Teacher Field Experience I	2
<a href="#">EDUC 1164</a>	Teacher Field Experience II	2
<a href="#">EDUC 4299</a>	Student Teaching	12

c. Take these additional courses:

<a href="#">SP&amp;M S 1185</a>	Principles Of Speech	3
<a href="#">POL SCI 1200</a>	American Government	3
<a href="#">PSYCH 1101</a>	General Psychology	3
<a href="#">BIO SCI 1113</a>	General Biology	3
<a href="#">PHYSICS 1605</a>	Environmental Physics I	3
<a href="#">HISTORY 3530</a>	History of Science	3
A 3 hour Art/Music/Theater elective		3

d. Complete the requirements for teacher certification listed in this catalog.

Justification for request  
 Changed Comp Sci requirement in response to changes in Comp Sci offerings. Allow substituting Physics 2311 by 2305 to give our majors the opportunity to take Modern Physics either in the fall or in the spring. Adjusted elective hours to keep program at 128 credit hours.  
 Supporting Documents  
 Course Reviewer Comments  
**ershenb (11/20/19 1:43 pm):** updated start term to fall 2020

## Course Change Request

### New Experimental Course Proposal

Date Submitted: 12/05/19 7:34 pm

Viewing: **BIO SCI 4001.006 : General Virology Lab**

File: 4685

Last edit: 01/08/20 10:29 am

Changes proposed by: djwesten

Requested	Fall 2020
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4001
Topic ID	006
Experimental Title	General Virology Lab
Experimental Abbreviated Course Title	General Virology Lab
Instructors	Dave Westenberg

Experimental Catalog Description	General introduction to the techniques used for the isolation and characterization of viruses with a focus on bacterial viruses.				
Prerequisites	Preceded or accompanied by Bio Sci 4493.				
Field Trip Statement					
Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0	Total: 1

Justification for new course:	To provide an opportunity for students to gain hands-on experience working with viruses to complement the general virology lecture course. The bacteriophages used are non-infectious to humans.
Semester(s) previously taught	New course
Co-Listed Courses:	

Course Reviewer **ershenb (01/08/20 10:29 am)**: updated Total hours to "1."  
 Comments

#### 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. 12/11/19 1:55 pm David Duvernell (duvernell): Approved for RBIOLSCI Chair
2. 12/11/19 1:58 pm Brittany Parnell (ershenb): Approved for CCC Secretary
3. 12/17/19 3:00 pm Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
5. 01/08/20 10:29 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

Key: 4685

6. 01/08/20 10:30  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair
7. 01/08/20 10:44  
am  
Marita Tibbetts  
(tibbettsmg):  
Approved for CAT  
entry

[Preview Bridge](#)

## Course Change Request

### New Experimental Course Proposal

Date Submitted: 12/06/19 10:12 am

Viewing: **MATH 5001.003 : Mathematics of Medical Imaging**

File: 4686

Last edit: 01/08/20 10:30 am

Changes proposed by: prunnion

Requested	Fall 2020
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	5001
Topic ID	003
Experimental Title	Mathematics of Medical Imaging
Experimental Abbreviated Course Title	Math Medical Imaging
Instructors	Murphy

Experimental Catalog Description	Introduction to the mathematical techniques used to model measurements and reconstruct images in medical imaging. Topics include the Fourier transform, Radon transform, sampling theory, digital filtering, noise analysis. Theory will be developed especially in the context of X-ray tomography.	In Workflow <ol style="list-style-type: none"> <li>1. <b>RMATHEMA Chair</b></li> <li>2. <b>CCC Secretary</b></li> <li>3. <b>Sciences DSCC Chair</b></li> <li>4. <b>Pending CCC Agenda post</b></li> <li>5. <b>CCC Meeting Agenda</b></li> <li>6. <b>Campus Curricula Committee Chair</b></li> <li>7. <b>CAT entry</b></li> <li>8. <b>Registrar</b></li> </ol>
Prerequisites	Math 2222 and Math 3108.	
Field Trip Statement		
Credit Hours	LEC: 3      LAB: 0      IND: 0      RSD: 0      Total: 3	Approval Path <ol style="list-style-type: none"> <li>1. 12/06/19 11:22 am vsam: Approved for RMATHEMA Chair</li> <li>2. 12/10/19 3:07 pm Brittany Parnell (ershenb): Approved for CCC Secretary</li> <li>3. 12/17/19 3:00 pm Katie Shannon (shannonk): Approved for Sciences DSCC Chair</li> </ol>

Justification for new course:	This course leverages the background and expertise of our faculty to explore new and important topics. This course should attract a broad range of students from around campus.	4. 12/23/19 8:33 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
-------------------------------	---	---

Semester(s) previously taught		5. 01/08/20 10:30 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
-------------------------------	--	---

Co-Listed Courses:		
--------------------	--	--

Course Reviewer Comments	<b>ershenb (01/08/20 10:30 am):</b> added "and" to prereq statement.	
--------------------------	--	--

Key: 4686

6. 01/08/20 10:30  
am  
Stephen Raper  
(sraper):  
Approved for  
Campus Curricula  
Committee Chair
7. 01/08/20 10:45  
am  
Marita Tibbetts  
(tibbettsmg):  
Approved for CAT  
entry

[Preview Bridge](#)

## Course Change Request

### New Experimental Course Proposal

Date Submitted: 11/21/19 8:38 am

Viewing: **PHYSICS 5001.001 : Introduction to Atomic, Molecular, and Optical Physics**

File: 4682

Last edit: 12/23/19 8:32 am

Changes proposed by: vojtat

Requested            Fall 2020

Effective Change

Date

Department        Physics

Discipline         Physics (PHYSICS)

Course Number    5001

Topic ID            001

Experimental Title    Introduction to Atomic, Molecular, and Optical Physics

Experimental Abbreviated Course Title    AMO Physics

Instructors        Dr. A.T. Le

Experimental Catalog Description    Concepts and methods of quantum mechanics applied to atomic and molecular structure, collisions, and interaction with lasers. Topics: one-electron atoms and interaction with electromagnetic waves, Hartree-Fock equations, electron configuration, structures of diatomic molecules, potential scattering, phase-shift, Born approximation, photoionization

Prerequisites      Physics 2305 or Physics 2311; preceded or accompanied by Physics 4301.

Field Trip Statement

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

Justification for new course:    Atomic, molecular, and optical (AMO) physics is a major field of physics and one of the research focus areas in the Physics Department. This course will provide seniors and beginning graduate students basic concepts and theoretical tools needed for their research in AMO physics. Students in other focus areas such as condensed matter physics and optics will benefit as well.

Semester(s) previously taught    none

#### In Workflow

1. **RPHYSICS 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. 11/21/19 8:41 am  
Thomas Vojta (vojtat):  
Approved for RPHYSICS Chair
2. 12/03/19 1:45 pm  
Brittany Parnell (ershenb):  
Approved for CCC Secretary
3. 12/17/19 3:01 pm  
Katie Shannon (shannonk):  
Approved for Sciences DSCC Chair
4. 12/23/19 8:33 am  
Brittany Parnell (ershenb):  
Approved for Pending CCC Agenda post
5. 01/08/20 10:30 am  
Brittany Parnell (ershenb):  
Approved for CCC Meeting Agenda

Co-Listed

Courses:

Course Reviewer

Comments

6. 01/08/20 10:30  
am

Stephen Raper

(sraper):

Approved for

Key: 4682

Campus Curricula  
Committee Chair

7. 01/08/20 10:47  
am

Marita Tibbetts

(tibbettsmg):

Approved for CAT  
entry

[Preview Bridge](#)

## Course Change Request

### New Experimental Course Proposal

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

Viewing: **PSYCH 3001.004 : Rationality: Scientific Thinking in Everyday Life**

File: 4681

Last edit: 12/16/19 10:04 am

Changes proposed by: burnsde

Requested            Fall 2020  
 Effective Change  
 Date

Department        Psychological Science

Discipline         Psychology (PSYCH)

Course Number    3001

Topic ID            004

Experimental       Rationality: Scientific Thinking in Everyday Life  
 Title

Experimental       Rationality  
 Abbreviated

Course Title

Instructors         Dr. Devin Burns

Experimental

Catalog

Description

The goal of this class is to leverage findings from cognitive psychology to help us better understand human decision making and cultivate clearer thinking. We will calibrate confidence judgments, review common errors and biases, and study argumentation and persuasion.

Prerequisites

Psych 1101.

Field Trip

Statement

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

Justification for  
 new course:

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social 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. 12/11/19 1:05 pm  
 Susan Murray (murray):  
 Approved for RPSYCHOL Chair
2. 12/11/19 1:26 pm  
 Brittany Parnell (ershenb):  
 Approved for CCC Secretary
3. 12/16/19 8:15 am  
 Michael Hilgers (hilgers):  
 Approved for Social Sciences DSCC Chair
4. 12/23/19 8:33 am  
 Brittany Parnell (ershenb):  
 Approved for Pending CCC Agenda post
5. 01/08/20 10:30 am  
 Brittany Parnell (ershenb):

This course gives students to opportunity to take their interest in psychology and apply it more directly to their lives in a way that is seldom done in other courses.

Semester(s)  
previously taught

Co-Listed  
Courses:

Course Reviewer  
Comments

Approved for CCC  
Meeting Agenda

6. 01/08/20 10:30  
am

Stephen Raper  
(sraper):

Approved for  
Campus Curricula

Committee Chair

7. 01/08/20 10:48  
am

Marita Tibbetts  
(tibbettsmg):

Approved for CAT  
entry

Key: 4681

[Preview Bridge](#)

## Course Change Request

### New Experimental Course Proposal

Date Submitted: 11/21/19 4:13 pm

Viewing: **STAT 2001.001 : Introductory Applied Statistical Methods**

File: 4683

Last edit: 12/16/19 10:08 am

Changes proposed by: prunnion

Requested	Fall 2020
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Statistics (STAT)
Course Number	2001
Topic ID	001
Experimental Title	Introductory Applied Statistical Methods
Experimental Abbreviated Course Title	Intro Applied Stat
Instructors	Koob

Experimental Catalog Description	An introduction to applied statistical methods, with applications in psychology and the social sciences, including design of experiments, sampling, probability, descriptive statistics, graphical displays, mean comparison, ANOVA, regression, and analysis of count data. Software will be emphasized. Not intended for engineering and computer science students.	In Workflow 1. <b>RMATHEMA Chair</b> 2. <b>CCC Secretary</b> 3. <b>Sciences DSCC Chair</b> 4. <b>Pending CCC Agenda post</b> 5. <b>CCC Meeting Agenda</b> 6. <b>Campus Curricula Committee Chair</b> 7. <b>CAT entry</b> 8. <b>Registrar</b>
Prerequisites		
Field Trip Statement		
Credit Hours	LEC: 3      LAB: 1      IND: 0      RSD: 0      Total: 4	

Justification for new course:	This course is designed to meet the needs of psychology majors, providing students training in statistical methodologies and applications relevant to their discipline. The topics covered will lay the foundations for further studies in research methods in psychological and related sciences. The course includes training in the use of open-source statistical software to conduct analytical techniques learned in class.	Approval Path 1. 11/21/19 5:51 pm vsam: Approved for RMATHEMA Chair 2. 11/25/19 4:16 pm Brittany Parnell (ershenb): Approved for CCC Secretary 3. 12/10/19 3:18 pm Katie Shannon (shannonk): Approved for Sciences DSCC Chair 4. 12/23/19 8:33 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post 5. 01/08/20 10:31 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
Semester(s) previously taught		
Co-Listed Courses:		

Course Reviewer Comments	6. 01/08/20 10:33 am
<small>Key: 4683</small>	Stephen Raper (sraper): Approved for Campus Curricula Committee Chair
	7. 01/08/20 10:50 am
	Marita Tibbetts (tibbettsmg): Approved for CAT entry

[Preview Bridge](#)

## Minor Creation Policy Ad Hoc Committee Report

### Introduction

The purpose for the Experimental Course (EC) process is to allow for development of modern degrees via new course content but also to help determine marketability and viability/cost effectiveness of the new courses. New or substantially different degree programs are subject to degree viability justification and approval by state agencies. New course creation can skip the EC process by making the course to be required within a degree program. Minor and certificate programs are useful marketing tools that exemplify uniqueness and value of the S&T campus to attract students but are elective and supportive to a program of study, not degree programs in their own right.

Course viability is subject to the Chancellor Policy Memo II-30, as well as the respective policies of each college. While course enrollments of courses being developed within the EC process are more lenient than permanently numbered courses, it is expected that new courses with permanent numbers will meet viability policies. Minors are commonly created for the purposes specified above as an extension of a degree program, having required courses in common, which has no additional program cost since the courses are populated as required parts of the degree program. As such, minors created from degree programs are encouraged. Departments can choose to skip the EC process and create a new permanent course, e.g., when creating a minor, emphasis, or certificate, in addition to courses that are also to be required within a degree program.

Certificates are to undergo regular curriculum approval processes, subject to the following:

Undergraduate [and graduate](#) certificates must have one primary owner (i.e., degree program) that does not preclude co-listing and must consist of currently offered or already approved (i.e., hard numbered) courses. Experimental courses may not be included as a part of a proposed certificate program of study. Proposed certificate programs, once approved, shall not allow substitute courses except in extenuating circumstances, [excluding experimental courses](#). Such extenuating circumstances must be approved by the associated Dean of the College in which the certificate program resides or of Graduate Studies for graduate certificates. Approved certificates shall become effective in the Fall Semester of an academic year. Certificates already approved or in approval processes prior to creation of this policy shall be grandfathered as approved under their existing processes but any future changes to those or later certificates must follow the regular curriculum approval system/processes.

Proposed Certificate programs of study must be submitted to the Missouri Department of Higher Education (MDHE) for approval. Certificate proposals are to be submitted through the campus curriculum approval ~~process in parallel with an MDHE submittal after approval by the associated Dean, and can be approved by faculty senate and become a Certificate subject to MDHE approval. The action of MDHE shall be reported by the CCC at the FS meeting following MDHE approval or rejection of the Certificate after CBHE approval and notification to the Provost from UM System. Complete details on the undergraduate certificate process can be viewed on the Campus Curriculum website on the Registrars home page. Details for the graduate certificate process can be viewed under Graduate Certificate Programs on the Office of Graduate Studies webpage.~~

### Minor or Certificate with Permanent Course Creation

The goal is to underscore the excellence available in academic learning on campus but to not maintain those that do not attract students. Each degree program is allowed one minor or certificate program that

requires no student population justification per year, having been ostensibly created from required courses of their degree program, but departments may create as many other minors or certificates as are reasonably populated. All current minor and certificate programs are included in any counting of minors and certificates that are not justified by population.

Minors or certificates can be used as a reason to create new classes that bypass the EC process provided there is a compelling reason for their creation. The campus curriculum committee (CCC) will recommend to the Senate those that are deemed compelling. All proposed permanent courses, those proposing non-experimental catalog numbers, must be required in the minor or certificate. No more than 6 credit hours of new permanent courses per year that bypass the EC process are allowed; any additional course credit hours bypassing the EC process must be well-justified.

#### Course Purging Policy

To avoid simply a bypassing of the EC process, minors and certificates and their respective courses shall be evaluated for number of students completing said minor and courses at a period of 5 years and assessed against the appropriate campus policy(ies). Minors and certificates and their courses required within the minor or certificate not meeting those policies are to be deactivated along with the new courses that were created outside the EC process when the minor or certificate was created unless the course has been taught successfully within the last 5 years.

Courses not taught are routinely purged from the catalog about every 10 years. At the 10 year review, any required courses for a degree program, minor, or certificate but having not been taught successfully during the last 10 years will be assessed by the campus curriculum committee for deactivation, along with the degree program, minor, or certificate requiring that course.



Other CCC meeting not listed is on Wed, Dec 4, 2019

8:15am – 9:45am in Fulton 120 (*Spring 2020 meetings*)

An additional Faculty Senate Meeting was added to be held on January 23, 2020

<b>CCC INFORMATION</b>	<b>Department submission to Registrar</b> <i>Fridays</i>	<b>DSCC submission to Registrar</b> <i>Fridays</i>	<b>CCC Meeting</b> <i>Wednesdays</i>	<b>Faculty Senate Meeting</b> <i>Thursdays</i>
<b>EC forms for Fall 2019</b>	July 12, 2019	July 26, 2019	August 14, 2019	September 26, 2019
<b>Affecting CC forms for Spring 2020</b>	August 16, 2019	August 30, 2019	October 2, 2019	October 17, 2019
<b>Non-affecting CC forms for Spring 2020</b>	September 20, 2019	October 4, 2019	October 30, 2019	November 21, 2019
<b>EC forms for Spring 2020</b>	November 29, 2019	December 13, 2019	January 8, 2020	February 20, 2020
<b>Affecting CC forms for Summer 2020 &amp; Fall 2020</b>	December 27, 2019	January 10, 2020	February 5, 2020 <i>March 4* (if needed)</i>	<u>February 20, 2020</u> March 19, 2020
<b>Non-affecting CC forms for Summer 2020</b>	February 21, 2020	March 6, 2020	April 1, 2020	April 16, 2020
<b>EC forms for Summer 2020</b>	April 3, 2020	April 17, 2020	May 6, 2020	June 11, 2020
<b>DC forms &amp; non-affecting CC forms for Fall 2020</b>	April 3, 2020	April 17, 2020	May 6, 2020	June 11, 2020
<b>EC forms for Fall 2020</b>	July 10, 2020	July 24, 2020	August 12, 2020	TBD

*Spring 2020 CCC meetings remain on Wednesdays; new time and location listed above*