1

PHIL R111: CRITICAL THINKING AND ANALYTIC WRITING

Originator

chorrock

College

Oxnard College

Discipline (CB01A)

PHIL - Philosophy

Course Number (CB01B)

R111

Course Title (CB02)

Critical Thinking and Analytic Writing

Banner/Short Title

Critical Thinking/Analyte Writ

Credit Type

Credit

Start Term

Fall 2021

Catalog Course Description

This course provides an introduction to critical thinking by emphasizing logical analysis and analytical writing. The course primarily examines inductive reasoning and its relation to deductive reasoning and other forms of persuasion. Topics include analysis of arguments, explanations, and informal fallacies that occur in the natural sciences, social sciences (including applied ethics), the humanities, (such as philosophy or art criticism), as well as everyday discourse. Critical thinking, writing and problem-solving skills to be developed include identifying and evaluating arguments; recognizing and correcting reasoning errors; constructing arguments based on sound methods of reasoning; assessing subjects from multiple theoretical points of view; composing original work of varying lengths, reflective of course elements.

Taxonomy of Programs (TOP) Code (CB03)

1509.00 - Philosophy

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

A (Transferable to both UC and CSU)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

E - Non-Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

May be required

Grading method

Letter Graded

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

Nο

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

52.5

Maximum Contact/In-Class Lecture Hours

52.5

Activity

Laboratory

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

52.5

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

105

Maximum Outside-of-Class Hours

105

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

157.5

Total Maximum Student Learning Hours

157.5

Minimum Units (CB07)

3

Maximum Units (CB06)

2

Prerequisites

ENGL R101

Entrance Skills

Entrance Skills

Ability to write at the college level

Prerequisite Course Objectives

ENGL R101-Write multiple-page expository and persuasive essays

ENGL R101-Demonstrate college-level control of mechanical elements of writing such as grammar, syntax, spelling, vocabulary, and idiomatic usage

ENGL R101-Research a topic, analyze and synthesize information, and report findings in a properly documented essay

ENGL R101-Demonstrate critical thinking skills and rhetorical awareness in analyzing others' non-fiction writing and in developing essays

Requisite Justification

Requisite Type

Prerequisite

Requisite

ENGL R101

Requisite Description

Course not in a sequence

Level of Scrutiny/Justification

Required by 4 year institution

Student Learning Outcomes (CSLOs)		
	Upon satisfactory completion of the course, students will be able to:	
1	Students will write a comparative analysis which addresses an ethical, social science, or natural science issue, question, or problem.	
2	Students will demonstrate skills in inductive and deductive reasoning.	
3	Students will identify basic informal fallacies of language and thought.	
Course Objectives		
	Upon satisfactory completion of the course, students will be able to:	
1	Distinguish fact from value, and knowledge from opinion, in reading and (in one's own) writing.	
2	Distinguish narration from persuasion, as well as rational explanation from rational justification.	
3	Assess the strength or validity of the connection between premises and conclusions, evaluating whether conclusions follow from premises, deductively or inductively.	
4	Analyze and evaluate arguments from a variety of subject area sources in terms of logical structure, use of language, type of reasoning, and type of evidence offered.	
5	Analyze and evaluate assumptions and implications, both hidden and stated, of arguments from diverse sources.	
6	Recognize and assess the use and relevance of primary inductive reasoning forms, such as appeal to analogy, causal reasoning, probability and statistics, and scientific hypothesis testing.	
7	Identify informal fallacies and explain the nature of their reasoning errors.	
8	Distinguish between the appropriate use of scientific methodologies and the abuse of pseudo-scientific facsimiles.	
9	Construct, in writing, correct single arguments and be able to refute single, poorly reasoned arguments using a variety of logical techniques, as appropriate.	
10	Construct well-organized, sustained written arguments that advocate positions and anticipate possible objections.	
11	Demonstrate all (or most) of the preceding skills through writing exercises, and most especially through standard college essay formats, that total 6000-8000 words.	
12	Demonstrate awareness of cultural diversity (a good thing) and cultural bias (a bad thing) as they appear in argumentation.	

Course Content

Lecture/Course Content

- 1. The Elements of Logic and Critical Thinking.
 - a. Arguments
 - i. Descriptions, explanations, justifications and other uses of language
 - ii. Premises and conclusions
 - iii. Assumptions and implications
 - b. Reasoning
 - i. Deductive and inductive inferences
 - 1. Valid versus invalid inferences
 - 2. Strong versus weak inferences
 - 3. Sound versus unsound arguments
 - 4. Necessary versus empirical statement-claims
 - 5. How deduction and induction can operate togther in analysis
 - ii. Varieties of inductive reasoning (inductive generalization)
 - 1. Applealing to a typical example
 - 2. Induction from past to future
 - 3. Analogical reasoning (induction by analogy)
 - a. Figurative
 - i. Simile
 - ii. Metaphor
 - b. Non-figurative/literal
 - c. Counter-argument analogies
 - d. Faulty analogies
 - e. Inductive analogy criteria

- i. Relevance of similarities (positive analogy)
- ii. Number of similarities
- iii. Nature and degree of disanalogy (negative analogy)
- iv. Number of primary analogues
- v. Diversity among primary analogues
- vi. Degree of analogy between new/predicted instance and previously observed instances
- vii. Specificity of the conclusion, (relative to evidence)
- f. Legal reasoning
 - i. Literal analogies
 - ii. Precedent law/statutes: e.g.,the present case is "like" People v. Harris
- g. Moral reasoning
 - i. Descriptive analogy
 - ii. Arguments from analogy versus counteranalogy
 - iii. Example: Abortion debate
 - 1. Harming a fetus is "like" committing an assault
 - 2. A fetus is a part of the mother's body, "like" a wart is part of one's hand
- 4. Causal reasoning
 - a. Causality
 - i. Necessary conditions: e.g., clouds necessary for rain
 - ii. Sufficient conditions: e.g., fire sufficient-for/causes heat
 - iii. Logically necessary and sufficient conditions: e.g., bachelor and unmarried male
 - b. (John Stuart) Mill's Methods of identifying causal connections
 - i. Method of agreement: identifying cause as necessary condition
 - ii. Method of disagreement: identifying cause as sufficient condition
 - iii. Method of residues: subtracting already-known casual connections from a causal claim
 - iv. Method of concomitant variation: matching variations in one condition with variations in another
 - c. Mill's methods and science
 - i. Method of controlled experiment
 - 1. Experimental group
 - 2. Control group
 - 3. Distribution curves (graphs/data)
 - 4. Longitudinal studies
 - ii. Correlation
 - 1. Positive correlation: one variable tending to increase/decrease parallel with another
 - 2. Negative correlation: one variable tending to increase/decrease in opposition with another
 - 3. No correlation: random behavior, haphazard or accidental association
 - 4. Perfect correlation
 - 5. Significant correlation
 - 6. Spurious association: mistaking one variable for causing another, when they are merely associated, and when a third factor is causing both; e.g., runny nose, underlying/causing watery eyes, (true cause of both: breathing pollen)
 - iii. Inference from correlation to causation
 - d. Contributing causes/partial causes
- 5. Probability
 - a. Classical theory: number of favorable results relative to number of possible results: e.g. selecting cards from a standard (game) deck
 - b. (Betting) Odds: number of favorable results relative to number of unfavorable results: e.g., rolling dice
 - c. Relative frequency theory: e.g., mortality tables (insurance companies)
 - d. Subjectivist theory: probability based on beliefs of individual people: e.g., horse race or stock market
 - e. Game Theory: e.g. the Prisoner's Dilemma, (predictions based on conditional/hypothetical assumptions)
- 6. Statistics
 - a. Generalizing from a sample
 - b. Samples and populations
 - i. Randomness: every member of a population having an equal chance of being selected
 - ii. Sample size
 - 1. Margin of error
 - 2. Confidence level
 - 3. Diversity

- a. Heterogeneous groups
- b. Homogeneous groups
- iii. Stratified sampling of the value of a variable: e.g. testing for drunk drivers at peak/selected times, (and not at equally random times)
- c. Statistical significance versus coincidental pattern
- d. Designing tests, and obstacles to collecting reliable data
 - i. Sample bias and psychological influence
 - ii. Fallacy of hasty generalization: jumping to conclusions, (unwarranted by evidence)
- e. The meaning of the term "average"
 - i. Mean
 - ii. Median
 - iii. Mode
- f. Dispersion (of data; how spread out data are in relation to numerical value)
 - i. Range (difference between smallest and largest)
 - ii. Variance (a measure of how far data are from a mean value/central tendency)
 - iii. Standard deviation: a measure of how far data deviate/stray from the mean value; the square root of the variance
 - iv. Graphs of data: e.g. histogram (bar graph)
 - 1. Normal distribution/bell curve
 - 2. Varying (shapes of) curves relative to narrow or wide distribution/deviation
 - v. Erroneous/misrepresentation of data using graphs and pictograms
- g. Summarizing induction from general to specific
- 7. Scientific methodology/hypothesis testing
 - a. Prediction, understanding, explanation
 - b. Test: observation/experiment intended to provide evidence
 - i. Confirming instances in experimentation
 - ii. Disconfirming instances in experimentation
 - 1. Actively seeking disconfirming evidence
 - 2. Systematically ruling out hypotheses
 - iii. Principle of falsifiability: claims must be testable/refutable (if they are to produce scientific truth/knowledge)
 - iv. Accuracy, precision, rigor
 - v. Anecdotal evidence
 - vi. Independent verification
 - c. Law: sufficiently well-tested general claim
 - d. Theory: proposed explanation used to explain a wide variety of phenomena
 - e. Hypothesis: proposed explanation, claim or theory
 - f. Creating and assessing alternative explanations
 - i. Identifying a problem
 - ii. Formulating a hypothesis
 - iii. Drawing/imagining implications (which should follow from) the hypothesis
 - iv. Testing (with an aim toward disconfirming) those implications
 - v. Decisive tests/"crucial" tests: tests which show whether a claim or hypothesis is false
 - g. Tentative acceptance of hypotheses
 - i. Adequacy: hypothesis fits the facts intended to unify or explain
 - ii. Internal coherence: component ideas are rationally interconnected
 - iii. External consistency: hypothesis does not disagree with other well-confirmed hypotheses.
 - iv. Fruitfulness: hypothesis suggests new ideas for future analysis, experiment and confirmation
- 8. Pseudoscience
 - a. Science, superstition and "phony" science
 - b. Hypotheses based on psychological versus logical elements
 - c. Science
 - i. Systematic collection of evidence
 - ii. Integrity
 - iii. Objectivity: How would a hypothetical unbiased observer weigh/judge the evidence?
 - iv. Ockham's Razor. (other things being equal) choose the simpler, less-fantastic of two rival theories
 - v. Replicability/repeatability (of test results by alternate, independent investigators under controlled conditions)
 - d. Pseudoscience
 - i. Post hoc fallacy: supposing that one variable causes another, when the only evidence is that one variable follows another a few times
 - ii. Fallacy of overemphasizing anecdotal evidence

- iii. Experimenter bias: contaminating the design or the implementation of a test
- iv. Ad hoc modifications/"rescues" of a pre-favored position or theory: psychological denial
- v. Examples
 - 1. Clairvoyance: Remote viewing of the world; seeing without being there
 - 2. ESP (Extrasensory perception): perception by means other than usual sense organs
 - 3. Precognition/fortune-telling
 - 4. Telepathy/mind-reading
 - 5. Confabulation: the unconscious brain/mind filling-in perceptival gaps using images from retrieved memory; e.g., imagining the phone is ringing when expecting a call
- vi. Being open-minded to "mystery," yet without rationally agreeing to claims based on less-than well-supported grounds

2. Fallacies

- a. Mistaking value-based opinions for clear, reliable facts
- b. Misrepresenting claims based on sincere beliefs for true, accurate, significant knowledge-claims
- c. Propaganda and "mass" appeal
- d. Emotionally-loaded language
- e. Common informal fallacies of relevance
 - i. Fallacious appeal to authority
 - ii. Appeal to force
 - iii. Fallacious appeal to pity
 - iv. Ad hominem attacks
 - 1. Personal attacks and "Poisoning the well"
 - 2. "You also" (or "You're worse") fallacies
 - v. False dichotomies/false choice fallacies
 - vi. Fallacious diversions
 - 1. Straw man fallacy
 - 2. Red Herring fallacy
 - 3. Exaggeration
 - a. Overly exaggerated claims ("claim-inflation")
 - b. Overly dismissive claims (ridicule of otherwise reasonable claims)
 - 4. Pre-judging conclusions (prior to investigation)
 - 5. "Cherry-picking"/pre-selecting evidence in advance of investigation
 - vii. Question-begging
 - 1. Circular reasoning
 - 2. Complex questions/loaded-rhetorical questions
- f. Common informal fallacies of ambiguity
 - i. Vagueness: fuzzy claims
 - ii. Equivocation: multiplicity of meaning
- 3. Evaluating Arguments: Criteria and Procedure
 - a. Analysis of premises and evidence
 - b. Assessment of logical structure
 - c. Review for fallacies (cultural bias, biased language, etc.)
 - d. Identification of appropriate inferences
 - e. Examination of assumptions and implications
 - f. Appraisal of argument(s)
- 4. Critical writing and composition
 - a. Developing a clear thesis statement
 - b. Supporting a thesis with reasons and evidence from a variety of sources
 - i. Appeals to legitimate authority
 - 1. Public policy opinions (professional "pro" and "con" points of view)
 - 2. Historical precedent
 - 3. Testimony (and qualified/expert opinion)
 - ii. Typical examples and (justifiable) analogies
 - iii. Evidence based on causal reasoning
 - iv. Evidence based on valid application of theories of probability
 - v. Statistical evidence
 - vi. Evidence based on standard, scientifically-grounded hypothesis testing and comparison of alternative hypotheses
 - c. Anticipating and rebutting (if possible) objections to the original thesis
 - d. Drawing appropriate inferences and conclusions

- e. Presenting and defending one's original thesis
- f. Revising/rethinking/rewriting one's position (often, if necessary/appropriate)

Laboratory or Activity Content

None

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises

Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Computational homework

Essay exams

Essays

Group projects

Individual projects

Journals

Objective exams

Problem-Solving Assignments

Problem-solving exams

Quizzes

Reports/papers

Research papers

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations Computer-aided presentations

Collaborative group work

Collaborative group v

Class discussions

Distance Education

Field trips

Group discussions

Instructor-guided interpretation and analysis

Internet research

Lecture

Small group activities

Describe specific examples of the methods the instructor will use:

- 1. Instructor will direct interactive instructional activities asking students to compare and contrast the "intuitive" use of creative, practical, informal critical thinking skills with the formal, ruled-based methods of (mathematical) logic
- 2. Guided and focused class discussions of various informal, practical, scientific methodological problem-solving techniques. These discussions would elicit student recognition of types of problems encountered in critical thinking; methods to re/solve; solution/s to problem/s, etc.
- 3. Instructor will show video/s depicting the application of (informal) critical thinking skills with concrete counterparts, for example, the use of probability and statistical analysis in gambling games, the (commercial) insurance industry, prediction of weather (events)/climate, and so forth.
- 4. Discussion/illustration of writing techniques relevant to/for the analysis of content as specified by/in the course, e.g.(forms of writing related to the...) social sciences, natural sciences, and (the) humanities.

Representative Course Assignments

Writing Assignments

- 1. Text abstracts (e.g. summarize an author's position and arguments from an argumentative essay). (1-3 pg.)
- 2. Journal entries (e.g. report on your own observations of propaganda and pseudo-science as it presents itself in modern media). (1-3 pg.)
- 3. Write a thesis-defense critique (criticize and critically analyze the strengths and weaknesses of opposing viewpoints on the issue of the trial and death of Socrates) (3-5 pgs.)

- 4. Write an explanatory paper (e.g. on the issue of scientific cloning for the purpose of furthering medical research, include elements from both scientific and social scientific points of view, especially emphasizing ethical considerations). (3-5 pgs.or 7-10 pgs.)
- 5. Compare and contrast essay/term paper (compare Darwin's view of evolution with the views of Creationism and Intelligent Design, including a discussion of scientific principles versus pseudo-scientific facsimiles in the process). (3-5 pgs. or 7-10 pgs.)

Critical Thinking Assignments

- 1. Participate in class and small group discussions which engage in dialogue about solving problems in practical (non-formal) logic, for example, law-school-style (LSAT) applied reasoning questions.
- 2. Compare and contrast different methodological approaches of assessing arguments in critical thinking: e.g., analogy/analogical (methods), correlation, hypothesis-testing, etc.
- 3. Use *written "meta-analysis" (analysis/self-appraisal of (one's own/others', etc.) analysis) to articulate descriptions, explanations, and/or justifications/arguments related to, for example, items #'s 1 and 2 (above).

Reading Assignments

- 1. Assigned text (e.g. specific chapters or topics in a standard critical thinking or applied logic text)
- Critical essays/articles (e.g. readings from current literature and/ or the history of philosophy, science, social science, and/or the humanities.)
- 3. Topical essays (e.g. "Pro-Con" style "ethical" argument essays on current controversial issues)
- 4. Newspaper articles, opinion-editorial pieces, and basic analytical writing (from a variety of fields and sources)

Skills Demonstrations

- 1. Putting an ordinary-language argument into "standard form," in order to assess its inductive strength and soundness.
- 2. Using critical thinking "tools" of thought, such as (John Stuart) Mill's Methods of (causal) analysis to affirm and/or eliminate (possible) causes (in particular sorts of critical thinking inquiries).

Other assignments (if applicable)

- 1. Library or internet-researched material (e.g. gather up-to-date statistics of voting patterns in the last presidential election and analyze).
- 2. Review video lectures on current topics in social sciences (and natural sciences, if applicable)
- 3. Design and conduct a project or experiment which exemplifies and applies concepts studied in this course.

Outside Assignments

Representative Outside Assignments

- 1. Reading/s of primary source materials in critical thinking/philosophy of science, and completing homework-style problems related to the reading/s.
- 2. Reading/s of secondary source materials in critical thinking/philosophy of science, and completing homework-style problems related to the reading/s.
- 3. Reviewing video of, for example, open-source university lectures on topics in critical thinking/philosophy of science
- 4. Searching for video related to course topics, but not included in the syllabus, and/or course bibliography
- 5. Research electronic databases, e.g., Standard Encyclopedia of Philosophy, for additional material on a subject
- 6. Reviewing content found on university/4-yr. college philosophy department websites, including philosophy program features, instructor web pages (of recent work, professional background), student web pages, insofar as they are indicative of professional work within the field of critical thinking/philosophy of science.
- 7. Weekly short essay assignments related to class lecture and assignments.
- 8. Library/Learning resource search-inquiries and assignments.
- 9. (Self)-Reports/-ing of searches/inquiries, outcomes of searches, interpretation/analysis of searches.

Articulation

Comparable Courses within the VCCCD

PHIL M05 - Crit Think & Analy Writing PHIL R121 - Thinking Critically PHIL V05 - Critical Thinking and Analytical Writing

District General Education

- A. Natural Sciences
- **B. Social and Behavioral Sciences**
- C. Humanities
- D. Language and Rationality
- **D2. Communication/Analytical Thinking**Approved
- E. Health and Physical Education/Kinesiology
- F. Ethnic Studies/Gender Studies
- **CSU GE-Breadth**
- Area A: English Language Communication and Critical Thinking
- **A3 Critical Thinking**

Approved

- Area B: Scientific Inquiry and Quantitative Reasoning
- Area C: Arts and Humanities
- Area D: Social Sciences
- Area E: Lifelong Learning and Self-Development
- Area F: Ethnic Studies
- **CSU Graduation Requirement in U.S. History, Constitution and American Ideals:**

IGETC

- **Area 1: English Communication**
- Area 1B: Critical Thinking and Composition

Approved

- **Area 2A: Mathematical Concepts & Quantitative Reasoning**
- **Area 3: Arts and Humanities**
- Area 4: Social and Behavioral Sciences
- **Area 5: Physical and Biological Sciences**
- **Area 6: Languages Other than English (LOTE)**

Textbooks and Lab Manuals

Resource Type

Textbook

Description

Dlestler (2020). Becoming a Critical Thinker. Pearson. (Boston, MA.)

Resource Type

Textbook

Description

Parker and Moore (2020) Critical Thinking. McGraw Hill Publishing. (NY/NY)

Resource Type

Textbook

Description

Boardman and Cavender (2018). Logic and Contemporary Rhetoric. Cengage. (Boston/MA)

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51%-99% online) Hybrid (1%-50% online) 100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%-50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a discussion board topic such As by distinguishing inductive (probabilistic) arguments as either Sound or unsound, and assess/ing the relative merits Or deficiencies exhibited by those arguments.
E-mail	Faculty will communicate with students via email regarding course information and concerns.
Other DE (e.g., recorded lectures)	Faculty may record audio recordings and/or video lectures on the course content including videos on metaphysics, epistemology, ethics, logic, social and political philosophy, theology, and/or axiologywithin the context of each one's (relative) impact on the field of critical thinking/philosophy of science.
Video Conferencing	Faculty may utilize online live meetings with students to deliver lectures and have discussions on topics related to the course content.

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Method of Instruction	Document typical activities or assignments for each method of instruction			
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Video Conferencing	Faculty may utilize online live meetings with students to deliver lectures and have discussions on topics related to the course content.			
100% online Modality:				
Method of Instruction	Document typical activities or assignments for each method of instruction			
Asynchronous Dialog (e.g., discussion board)	Students will post a discussion board topic such As by distinguishing inductive (probabilistic) arguments as either Sound or unsound, and assess/ing the relative merits Or deficiencies exhibited by those arguments.			
Face to Face (by student request; cannot be required)	Faculty will communicate with students via email regarding course information and concerns.			
Other DE (e.g., recorded lectures)	Faculty may record audio recordings and/or video lectures on the course content including videos on metaphysics, epistemology, ethics, logic, social and political philosophy, theology, and/or axiologywithin the context of each one's (relative) impact on the field of critical thinking/philosophy of science.			
Video Conferencing	Faculty may utilize online live meetings with students to deliver lectures and have discussions on topics related to the course content.			
Examinations				
Hybrid (1%-50% online) Modality Online On campus				
Hybrid (51%-99% online) Modality Online On campus				

Primary Minimum Qualification

PHILOSOPHY

Review and Approval Dates

Department Chair

09/20/2020

Dean

09/21/2020

Technical Review

10/28/2020

Curriculum Committee

10/28/2020

Curriculum Committee

11/25/2020

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MM/DD/YYYY

Control Number

CCC000072622

DOE/accreditation approval date

MM/DD/YYYY