

Washtenaw Community College Comprehensive Report

PHL 250 Logic Effective Term: Fall 2022

Course Cover

College: Humanities, Social and Behavioral Sciences

Division: Humanities, Language & the Arts

Department: Humanities

Discipline: Philosophy (new)

Course Number: 250

Org Number: 11400

Full Course Title: Logic

Transcript Title: Logic

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Other:

Rationale: Three-year syllabus review following course assessment.

Proposed Start Semester: Winter 2022

Course Description: In this course, students are introduced to the discipline of philosophical logic. Emphasis will be placed on the distinction between deductive/formal reasoning and inductive/informal reasoning. With regard to the former, the course will examine different methods for the evaluation of deductive/formal arguments or reasoning. With regard to the latter, the course will again explore methods of evaluation, highlighting common mistakes in informal or everyday reasoning.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 Student: 45

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 45 Student: 45

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

General Education

MACRAO

MACRAO Humanities

General Education Area 6 - Arts and Humanities

Assoc in Applied Sci - Area 6

Assoc in Science - Area 6

Assoc in Arts - Area 6

Michigan Transfer Agreement - MTA

MTA Humanities

Request Course Transfer**Proposed For:**

Eastern Michigan University

Michigan State University

Oakland University

University of Michigan

Wayne State University

Student Learning Outcomes

1. Distinguish between deductive/formal reasoning and inductive/informal reasoning.

Assessment 1

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All students

Number students to be assessed: All sections

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of students will score 70% or higher.

Who will score and analyze the data: Departmental faculty

2. Successfully apply multiple methods for the evaluation of deductive arguments.

Assessment 1

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All students

Number students to be assessed: All sections

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of students will successfully apply four or more methods of validity testing.

Who will score and analyze the data: Departmental faculty

3. Recognize common mistakes or fallacies in inductive/informal arguments.

Assessment 1

Assessment Tool: Outcome-related departmental exam questions

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All students

Number students to be assessed: All sections

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of students will score 70% or higher.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Identify and define the concepts of validity and soundness.
2. Identify and define what it means for reasoning to be formal.

3. Develop a formal language or logical notation for the purpose of translating and evaluating arguments.
4. Employ the truth table method for evaluating deductive arguments.
5. Employ the indirect truth table method for evaluating deductive arguments.
6. Employ the method of proof for evaluating deductive arguments.
7. Employ the Venn diagram method for evaluating deductive arguments.
8. Employ the rules method for evaluating deductive arguments.
9. Identify and discuss central concepts relating to inductive/informal logic, such as strength and cogency.
10. Identify and define what it means for reasoning to be informal.
11. Identify fallacies or mistakes common to inductive/informal reasoning.

New Resources for Course

Course Textbooks/Resources

Textbooks

Copi and Cohen. *Introduction to Logic*, ed. unknown, 0

Cohen, C. *Introduction to Logic*, 14 ed. Pearson, 2007, ISBN: 9780205820375.

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Charles Johnson</i>	<i>Faculty Preparer</i>	<i>Jan 06, 2022</i>
Department Chair/Area Director: <i>Elisabeth Thoburn</i>	<i>Recommend Approval</i>	<i>Jan 10, 2022</i>
Dean: <i>Scott Britten</i>	<i>Recommend Approval</i>	<i>Jan 13, 2022</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Feb 24, 2022</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Feb 24, 2022</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Mar 02, 2022</i>

Washtenaw Community College Comprehensive Report

PHL 250 Logic Effective Term: Fall 2019

Course Cover

Division: Humanities, Social and Behavioral Sciences

Department: Humanities

Discipline: Philosophy

Course Number: 250

Org Number: 11540

Full Course Title: Logic

Transcript Title: Logic

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission:

Change Information:

Consultation with all departments affected by this course is required.

Rationale: Syllabus reviewing following Fall 2018 assessment.

Proposed Start Semester: Winter 2019

Course Description: In this course, students are introduced to the discipline of philosophical logic. Emphasis will be placed on the distinction between deductive/formal reasoning and inductive/informal reasoning. With regard to the former, the course will examine different methods for the evaluation of deductive/formal arguments or reasoning. With regard to the latter, the course will again explore methods of evaluation, highlighting common mistakes in informal or everyday reasoning.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 **Student:** 45

Lab: Instructor: 0 **Student:** 0

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

General Education

MACRAO

MACRAO Humanities

General Education Area 6 - Arts and Humanities

Assoc in Applied Sci - Area 6
Assoc in Science - Area 6
Assoc in Arts - Area 6
Michigan Transfer Agreement - MTA
MTA Humanities

Request Course Transfer

Proposed For:

Eastern Michigan University
Michigan State University
University of Michigan
Wayne State University

Student Learning Outcomes

1. Distinguish between deductive/formal reasoning and inductive/informal reasoning.

Assessment 1

Assessment Tool: Department Exam
Assessment Date: Fall 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All students
Number students to be assessed: All sections
How the assessment will be scored: Department Rubric
Standard of success to be used for this assessment: 70% of students will score 70% or higher
Who will score and analyze the data: Department faculty

2. Successfully apply multiple methods for the evaluation of deductive arguments.

Assessment 1

Assessment Tool: Department Exam
Assessment Date: Fall 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All Students
Number students to be assessed: All Sections
How the assessment will be scored: Department Rubric
Standard of success to be used for this assessment: 70% of students will successfully apply four or more methods of validity testing
Who will score and analyze the data: Department faculty

3. Recognize common mistakes or fallacies in inductive/informal arguments.

Assessment 1

Assessment Tool: Department Exam
Assessment Date: Fall 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All Students
Number students to be assessed: All Sections
How the assessment will be scored: Department Rubric
Standard of success to be used for this assessment: 70% of students will score 70% or higher
Who will score and analyze the data: Department faculty

Course Objectives

1. Identify and Define the concepts of validity and soundness.
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6. Employ the method of proof for evaluating deductive arguments.
7. Employ the Venn diagram method for evaluating deductive arguments.
8. Employ the rules method for evaluating deductive arguments.
9. Identify and discuss central concepts relating to inductive/informal logic, such as strength and cogency.
10. Identify and define what it means for reasoning to be informal.
11. Identify fallacies or mistakes common to inductive/informal reasoning.

New Resources for Course

Course Textbooks/Resources

Textbooks

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Cohen, C. *Introduction to Logic*, 14 ed. Pearson, 2007, ISBN: 9780205820375.

Manuals

Periodicals

Software

Equipment/Facilities

Level I classroom

Level III classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Charles Johnson</i>	<i>Faculty Preparer</i>	<i>Jan 24, 2019</i>
Department Chair/Area Director: <i>Allison Fournier</i>	<i>Recommend Approval</i>	<i>Jan 29, 2019</i>
Dean: <i>Kristin Good</i>	<i>Recommend Approval</i>	<i>Jan 29, 2019</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Feb 20, 2019</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Feb 21, 2019</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Feb 25, 2019</i>