

DATA AND TECHNOLOGY ETHICS CERTIFICATE

Student will be able to express and explain their reasoning according to the standards of philosophical discourse.

- Application: Students will be able to extend their use of moral and ethical reasoning to novel areas of inquiry for which philosophical methods offer the opportunity for input and discussion.

Code	Title	Hours
1. Logical and Ethical Foundations		
Select one of the following:		3
PHIL 1010	Introduction To Logic	
	or PHIL 1020Critical Thinking	
	or PHIL 2400Contemporary Moral Problems	
2. Professional Ethics ¹		
Select one of the following:		3
PHIL 3160	Data Science Ethics	
	or PHIL 331CScience And Society	
3. Applied Ethics and Philosophy ²		
Select one of the following:		3
PHIL 3000	Symbolic Logic	
	or PHIL 3060Philosophy Of Language	
	or PHIL 3140Computers And Culture	
	or PHIL 3400	
	or PHIL 3630Philosophy Of Psychology	
Total Hours		9

¹ Students may use the unused option in the Professional Ethics as an Applied Ethics option.

² This list is recommended for students, however, any upper division Philosophy course at the 3000-4000 level can serve as an Applied Ethics course.

First Term	Hours
PHIL 1010 Introduction To Logic	3
Hours	3
Second Term	Hours
PHIL 3160 Data Science Ethics	3
Hours	3
Third Term	Hours
PHIL 3000 Symbolic Logic	3
Hours	3
Total Hours	9

- Subject Expertise: Students will be able to define and explain ethical issues associated with the development and application of data science methods in technology and contemporary society.
- Critical Engagement: Students will analyze and evaluate positions and arguments with respect to the ethical employment of data science methods in the spheres of personal ethics, public policy, privacy and society.
- Analysis and Expression: Students will be able to develop, articulate and argue for their own positions regarding the ethical use of data science and analytics in contemporary and future applications.