DATA AND TECHNOLOGY ETHICS CERTIFICATE

Code	Title	Hours
1. Logical and Ethical Foundations		
Select one of the following:		3
PHIL 1010	Introduction To Logic	
or PHIL 1020	Critical Thinking	
or PHIL 2400	Contemporary Moral Problems	
2. Professional Ethics [1]		
Select one of the following:		3
PHIL 3160	Data Science Ethics	
or PHIL 3310	Science And Society	
3. Applied Ethics and Philosophy [2]		
Select one of the following:		3
PHIL 3000	Symbolic Logic	
or PHIL 3060	Philosophy Of Language	
or PHIL 3140	Computers And Culture	
or PHIL 3400		
or PHIL 3630	Philosophy 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		
PHIL 3160	Data Science Ethics	3
	Hours	**3**
Third Term		
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.

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.