

# Adam Mickiewicz University in Poznań

## Faculty of Chemistry

*INNChem - rozwój kompetencji doktorantów kluczowych w pracy o charakterze badawczo-rozwojowym*

### Fluorine Chemistry: From Pharmaceuticals to Polymers

Prof. Dr. Chadron M. Friesen

#### Foreign lecture

<b>Field of science</b>	Chemistry
<b>Teaching method</b>	lecture
<b>Language</b>	ENGLISH
<b>ECTS credits</b>	1
<b>Numbers of hours</b>	12
<b>Aims of the course</b>	This course aims at providing an appreciation for fluorine chemistry and its applications in both small molecule chemistry and material science. This course will also include environmental impact and advancements in remediation.
<b>Course contents</b>	The course content will provide a historical overview of fluorine use, which will include some organofluorine fundamentals that are different from traditional organic chemistry. Once the fundamentals are covered, then the lecture material will move into three separate but related topics. The first topic covers the use and benefit of fluorine in pharmaceuticals and some current advancements in their incorporation. The second and larger topic of discussion will be on the manufacturing of perfluoropolyalkylethers (PFPAEs) and their applications. The last topic is how fluorine influences the environment and how molecular design can reduce adverse impact.
<b>Prerequisites and co-requisites</b>	The ESRs are expected to have some background in organic chemistry.

#### Learning outcomes

On completion of the course PhD candidates will be able to:	Assessment mode
Understand the history of fluorine chemistry	Final exam
Know the purpose and how to introduce fluorine into pharmaceuticals	
Learn the applications of PFPAEs and their recent developments	
Recognize how fluorine impacts the environment and what can be done to solve current issues	
<b>Literature</b>	Provided by the lecturer at the beginning of the course
<b>Additional information</b>	Come with an inquisitive mind Schedule (suggested dates):



**European  
Funds**  
Knowledge Education Development



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POZNAN

**European Union**  
European Social Fund



17.06.2019, 10:00-11:30 and 13:00-14:30  
18.06.2019, 10:00-11:30 and 13:00-14:30  
19.06.2019, 10:00-11:30 and 13:00-14:30

Contact: [chad.friesen@twu.ca](mailto:chad.friesen@twu.ca)