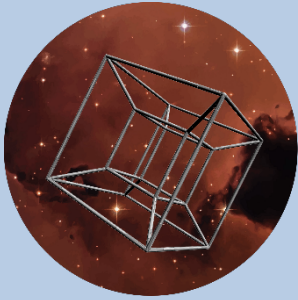


# European Virtual Exchange



Sorbonne Université		Concurrent programming (3I001)		
<b>Course description</b>	Concurrent programming is becoming an issue since most devices (computers, phones, etc) now embed several cores or processors. The goal of this course is to provide students with the basics of concurrent programming and details the main mechanisms you can use in various languages to implement distributed algorithms. It is a good complement to a distributed algorithms course.			
<b>Domain</b>	Computer science			
<b>Keywords</b>	Thread	Concurrent programming	Concurrency in Java	Shared data
<b>Prerequisites</b>	The knowledge of programming, and the use of an object oriented language is of importance. Java is briefly recalled at the beginning of the course but preliminary practice helps..			
<b>Level</b>	Bachelor (3rd year)			
<b>Language</b>	French with english subtitles			
<b>Number of credits and workload</b>	<b>6 credits</b>	<b>5-7 hrs per week</b>		<b>77 hrs in total</b>
<b>Semester period and Start date course</b>	<b>Semester 1</b>	<b>Start date:</b> 11-Sep-18		
<b>Application deadline</b>	10-Sep-18			
<b>Full course description</b>	The objective of this course is to address the main problems related to the development of competing programs. It also offers a first opening towards distributed algorithms. The main notions to be presented are: - The role of the language runtime (as a view on the operating system) in the execution of a program, - The notion of tasks, processes, and threads, -The problem of concurrent access to shared data, -The different mechanisms to protect shared data,-Communication mechanisms between threads, -The basics about the termination of a concurrent program,-The structure of a server program, - Some basics about concurrent algorithmic. Practice is performed using Java			
<b>Platform and link to course description</b>	Dedicated companion web site	<a href="https://www-licence.ufr-info-p6.jussieu.fr:8083/lmd/licence/2017/ue/3I001-2017oct/(for2017/2018)">https://www-licence.ufr-info-p6.jussieu.fr:8083/lmd/licence/2017/ue/3I001-2017oct/(for2017/2018)</a>		
<b>Course description in study guide</b>	<a href="http://www-licence.ufr-info-p6.jussieu.fr/lmd/licence//public/espace_public/offres_formation/descr_ue.php?code_ue=3I001">http://www-licence.ufr-info-p6.jussieu.fr/lmd/licence//public/espace_public/offres_formation/descr_ue.php?code_ue=3I001</a>			
<b>Lecturer(s)</b>	Fabrice Kordon			
<b>Extra Course information</b>	Information relevant for selection process or for students			

# European Virtual Exchange

<b>Picture of course</b>			
<b>Final examination date and time /period</b>	Examination date	Examination time UTC + or -	7-12 January 2019
<b>Examination registration deadline or drop-out deadline</b>	Examination registration before If applicable, enter examination registration date. NO Drop- out deadline If applicable, enter last drop-out date. NO		
<b>Type of examination</b>	Written		
<b>Midterm examination?</b>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Additional information on midterm exam	
<b>Previous exam papers available</b>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		
<b>Specific rules for examinations</b>	Give details if particular rules apply like no use of calculator, watches etc		
<b>Resit? and date</b>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Enter resit date. 11-17 June	
<b>Grade release and transcript release</b>	February	Transcript release date if more than 1 week after grade release.	

Available places <b>60</b> equally distributed to the partners		
	Interested	10 places per university
<b>UC Louvain</b>	<input type="checkbox"/> <b>yes</b>	Click or tap here to enter number
<b>EPFL</b>	<input type="checkbox"/> <b>yes</b>	Click or tap here to enter number
<b>UC3M</b>	<input type="checkbox"/> <b>yes</b>	Click or tap here to enter number
<b>Leiden</b>	<input type="checkbox"/> <b>yes</b>	Click or tap here to enter number
<b>Wageningen</b>	<input type="checkbox"/> <b>yes</b>	Click or tap here to enter number
<b>TU Delft</b>	<input type="checkbox"/> <b>yes</b>	Click or tap here to enter number

General information Sorbonne Université	
<b>Date start academic year:</b>	3-Sep-18
<b>Semester periods:</b>	<b>1<sup>st</sup> from</b> 3-Sep-18 <b>to</b> 21-Dec-18 Additional information on semester 1 <b>2<sup>nd</sup> from</b> 21-Jan-19 <b>to</b> 11-May-19 Additional information on semester 2
<b>Application deadline semester 1:</b>	3-Sep-18 or enter text
<b>Application deadline semester 2:</b>	21-Jan-19 or enter text
<b>Holiday periods:</b>	27.10.2018 to 04.11.2018 22.12.2018 to 06.01.2018 20.04.2019 to 05.05.2018
<b>Student data required for application:</b>	First and last name, email address, study level, home university
<b>General web site</b>	<a href="https://www.sorbonne-universite.fr/">https://www.sorbonne-universite.fr/</a>
<b>Virtual Exchange web site</b>	<a href="http://www.telesciences.upmc.fr/fr/european-virtual-exchange.html">http://www.telesciences.upmc.fr/fr/european-virtual-exchange.html</a>
<b>Virtual Exchange contact person(s) operational</b>	Sabine Bottin-Rousseau
<b>Virtual Exchange Email address</b>	bottin@insp.jussieu.fr
<b>List of courses available per semester</b>	<u>1<sup>st</sup> semester:</u> Introduction à la mécanique (BA 1) Calculus (BA 1) Si on parlait sciences (BA 1)  Thermodynamics (BA 3) Introduction to Quantum Mechanics(BA 3) Concurrent Programming (BA 3)  Bases of functional analysis 1 and 2 (Master 1) Programming on mobile platform IOS (Master 2)  <u>2<sup>nd</sup> semester:</u> Calcul matriciel (BA1) Systèmes mécaniques et systèmes électroniques (BA1)