UConn's MATH 1020Q
Fall 2017 Syllabus

Welcome to the Wonderful World of Math 1020Q!

Description: An introduction to the techniques used by mathematicians to solve problems. Skills such as Externalization (pictures and charts), Visualization (associated mental images), Simplification, Trial and Error, and Lateral Thinking learned through the study of mathematical problems. Problems drawn from combinatorics, probability, optimization, cryptology, graph theory, and fractals. Students will be encouraged to work cooperatively and to think independently.

Prerequisites: Recommended preparation: MATH 1010 or the equivalent. Not eligible for course credit by examination. Not open for credit to students who have passed any mathematics course other than MATH 1010, 1011, 1030, 1060 or 1070.

Text: PProblem SSSolving, 3rd edition, DeFranco, Vinsonhaler, & Naigles,
ISBN 978-1-285-90866-3

Here you will find a sample course outline. Consult your own instructor for an outline relevant to your own course.

Week	Date	Material	Assignment due on Date
1	Aug 31, 2017	Chapters 1,2 – Problem Solving, PSSSP	
2	Sept 7, 2017	Chapter 3 – Be Proactive	Automathography, Heap Letter
3	Sept 14, 2017	Chapter 4 – See it	Symmetry
4	Sept 21, 2017	Chapter 4 – See it, Chapter 5 – Simplify it	Prom Problem
5	Sept 28, 2017	Chapter 5 – Simplify it, Exam #1	Parking Lot
6	Oct 5, 2017	Chapter 6 – Stir it up	Forty Thieves
7	Oct 12, 2017	Chapter 6 – Stir it up	Should you switch?
8	Oct 19, 2017	Chapter 7 – Pause and Reflect	Faculty Debts
9	Oct 26, 2017	Chaps 8,9 – Interpersonal, Communication	
10	Nov 2, 2017	Estimation	Grappling with Groups
11	Nov 9, 2017	Review and Exam #2	Beech Tree (10 ways to measure)
12	Nov 16, 2017	Revisit PSSSP and work on Final Project	House Hunt
13	Nov 23, 2017	Thanksgiving Break!	
14	Nov 30, 2017	Revisit PSSSP and review for Final Exam	True and False
15	Dec 7, 2017	Presentation of Final Projects	

You will be assigned projects during the semester to be worked on individually or in groups. One write-up will be submitted for each student. Projects will be graded on accuracy, creativity and presentation. The most important aspect of these projects is clear explanations of your approach and conclusions.

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Solutions without explanations will get very low scores. We will begin the projects in class, but frequently additional time outside of class will be required to complete them. Groups may be asked to present their project solutions to the class.

There are two hourly exams during the semester, currently scheduled for weeks 5 and 11. There will also be a final exam, which is cumulative.

The best way to prepare for the exams is to be familiar with all the stretches and text problems done in class, as well as the homework assignments. Many exam questions are related to the work done in class and in the homework assignments.

Each individual instructor will provide you further details on Exams throughout the semester.

Important University Policies

http://policy.uconn.edu/academic-and-student-life/

Course Info

MATH 1020Q: Problem Solving

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Offered: Fall Intersession Spring Suummer

Credits: 3

Sections: Fall 2017 on Storrs Campus

Coordinator: Naigles, Mark

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Coordinated Sections: all

PSCourseID	Course	Sec	Comp	Time	Room	Instructor
05514	1020Q	001	Lecture	Th 03:30:00 PM-06:00:00 PM	MONT319	Naigles, Mark
05551	1020Q	002	Lecture	MWF 09:05:00 AM-09:55:00 AM	MONT320	Dolan, Robert
05552	1020Q	003	Lecture	MWF 08:00:00 AM-08:50:00 AM	MONT320	Dolan, Robert
05572	1020Q	004	Lecture	TuTh 09:30:00 AM-10:45:00 AM	MONT421	McArdle, David
05906	1020Q	005	Lecture	MWF 01:25:00 PM-02:15:00 PM	MONT110	Tae Park
05858	1020Q	006	Lecture	MWF 10:10:00 AM-11:00:00 AM	MONT225	Bowen, Nicole
05907	1020Q	007	Lecture	TuTh 12:30:00 PM-01:45:00 PM	MONT225	McArdle, David
05859	1020Q	008	Lecture	MWF 11:15:00 AM-12:05:00 PM	MONT225	Sandberg, Kristen
09364	1020Q	010	Lecture	MWF 09:05:00 AM-09:55:00 AM	MONT421	Tae Park
09365	1020Q	011	Lecture	MWF 12:20:00 PM-01:10:00 PM	MONT321	Sandberg, Kristen