

ISSCM 400 ONLINE, SYLLABUS for SUMMER 2018

Welcome to the online ISSCM 400 class. We will be using the Third Edition of *Forgotten Calculus* by Barbara Bleau, ISBN: 978-0-7641-1998-9, available from Amazon or through the bookstore.

This class is divided into 5 sections of material. Each section has a set of Units and a Quiz. You **must** complete each section by the time indicated below, but you **may** do them earlier if you wish. [That is, you could work through all the material and quizzes the week you enroll.] The material in each section builds on material from the previous sections, so please complete them in order. The quizzes each have ten multiple choice questions. You must get at least 7 of the 10 correct on each quiz. Quizzes become unavailable after midnight on the “Complete By” date.

Narrated PowerPoint slides are available in this Sakai course site under the Loyola Media tab.

| Sections | Units | Unit Topics | Quizzes | Complete By |
|----------|-------|---------------------------------------------------------------|---------|---------------|
| 1 | 1 | Functions | | |
| | 2 | Functions: Composite and Applications with Restricted Domains | | |
| | 3 | Graphing Linear Functions | | |
| | 4 | Writing Linear Functions | 1 | May 24, 2018 |
| 2 | 5 | Linear Applications | | |
| | 6 | Quadratic Functions | | |
| | 7 | Quadratic Applications | 2 | May 31, 2018 |
| 3 | 9 | The Derivative | | |
| | 10 | More About the Derivative | | |
| | 11 | Instantaneous Rates of Change | | |
| | 12 | More Differentiation Rules | | |
| | 13 | The Power Rule Revisited | 3 | June 7, 2018 |
| 4 | 14 | Maximum and Minimum Points | | |
| | 15 | Classifying Critical Points—One Procedure | | |
| | 16 | Classifying Critical Points—Second Procedure | | |
| | 17 | Classifying Critical Points—Third Procedure | | |
| | 19 | Optimization Problems | 4 | June 14, 2018 |
| 5 | 22 | Exponential Functions | | |
| | 23 | Logarithmic Functions | | |
| | 28 | Functions of Several Variables | 5 | June 21, 2018 |

Please email me with any questions at mmallia@luc.edu