



**Birzeit University-Mathematics Department**  
**Math1321-Calculus II**

**Course Outline**

**Summer 2016-2017**

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**Textbook:** Thomas G., M. Weir and J. Hass, Thomas' Calculus.  
Twelfth Edition, Addison-Wesley

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**Course Material:**

| Chapter | Topics                                                  | Sections |
|---------|---------------------------------------------------------|----------|
| Ch.10   | Infinite Sequences and Series                           | 1-10     |
| Ch.11   | Parametric Equations, Polar Coordinates, Conic Sections | 1-6      |
| Ch.12   | Vectors and the Geometry of Space                       | 1-6      |
| A.7     | Complex Variables                                       | A7       |

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**Grading Policy**

|                |     |
|----------------|-----|
| Two-Hour Exams | 55% |
| Final Exam     | 45% |

| Section                                      | Lecture Problems                   | Discussion Problems |
|----------------------------------------------|------------------------------------|---------------------|
| Chapter 10-Infinite Sequences and Series     |                                    |                     |
| 10.1                                         | 10,18,32,41,50,59,60,69,75,84,92   |                     |
| 10.2                                         | 6,14,18,24,32,38,44,50,62,63,78,90 |                     |
| 10.3                                         | 6,13,22,28,32,38,40                |                     |
| 10.4                                         | 8,15,18,27,28,32,40,43,52          |                     |
| 10.5                                         | 7,12,16,20,28,38,43,46,60          |                     |
| 10.6                                         | 8,13,20,25,30,39,42,50             |                     |
| 10.7                                         | 4,12,14,23,29,32,40,46             |                     |
| 10.8                                         | 3,13,20,22,27,32                   |                     |
| 10.9                                         | 10,12,18,26,35,37,41               |                     |
| 10.10                                        | 10,16,26,30,33                     |                     |
| Chapter 11-Polar Coordinates                 |                                    |                     |
| 11.1                                         | 2,10,14,18,22                      |                     |
| 11.2                                         | 7,14,20,23,26                      |                     |
| 11.3                                         | 1,6,7,14,22,26,32,38,42,52,62      |                     |
| 11.4                                         | 1,6,8,19,21,28                     |                     |
| 11.5                                         | 6,9,13,16,21,23                    |                     |
| 11.6                                         | 10,12,20,26,28,32,36,38            |                     |
| Chapter 12-Vectors and the Geometry of Space |                                    |                     |
| 12.1                                         | 8,12,14,20,26,30,36,43,56,64,65    |                     |
| 12.2                                         | 7,10,15,18,22,25,33,40,42          |                     |
| 12.3                                         | 5,10,17,20,31,33,45                |                     |
| 12.4                                         | 3,16,20,23,27,34,40,45             |                     |
| 12.5                                         | 2,6,9,20,22,25,28,32,35,44,46,54   |                     |
| 12.6                                         | 1-12                               |                     |
|                                              | Appendix A.7 Complex Numbers       |                     |
| A.7                                          | 2,7,9,10,13,19,24                  |                     |