### Math 4030 FA/FB Probability and Statistics (2023 Fall)

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| **Instructor:** [**John**](http://giant.lakeheadu.ca/~wzhuang/index.html) **Kimball** |
| **Office: RB 2006** |
| **E-Mail:** **jfkimbal@lakeheadu.ca** |

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| **Lecture (FA):** Mon/Wed, 4:00pm – 5:30pm in AT1001**Lecture (FB):** Tues/Thurs, 11:30am – 1:00pm in BB1075 |
| **Office Hours:** Thursdays: 8:45am – 9:45am in RB2006 |
| **Email Communication:** When sending emails regarding the course, include course number, your name, and keywords in the subject line. For example, “Subject: Math 4030, John Smith, formula for standard deviation”.  |

**Textbook:** Math 4030 SA – 2023, Probability and Statistics for Engineers Course Handbook

(SA is a typo)

**Performance Evaluation:** Your final grades are calculated from your Assignments, MidTerm Exam and Final Exam marks.

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| **Assignments** | **MidTerm** | **Final Exam** |
| 10% | 30% | 60% |

**Lectures:**

1. Will be conducted in-person.
2. It is strongly recommended that you attend all the lectures to maximum probability of success. Students who miss lectures are responsible for obtaining the notes from a classmate.
3. Handouts for the lectures are available in the Course Handbook.

**Assignments:** There will be short weekly assignments (via WebWork). The due dates are included at the end of the Course Outline (all are due at 11:59pm). Late assignments will not be accepted.

**MidTerm:** The MidTerm will be held on October 3rd (FB) and October 4th (FA).

**Final Exams:** There is a three-hour final exam in a classroom and a date to be determined.

**Students with Disabilities or Chronic Conditions**: Reasonable accommodations are available for students with a documented disability or chronic condition. It is the student’s responsibility to seek these accommodations. If a student has a disability or chronic condition and may need accommodation to fully participate in this class, he/she should contact the Student Accessibility Services located at SC0003 or by phone: 343-8047.

**Tentative Schedule (Subject to Change):**

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| **Day** | **Activity** | **Day** | **Activity** |
| 1 | • Course Intro• Chapter 1• Chapter 2 (slides 1 – 18) | 13 | • Chapter 5 (slides 41 – 61) |
| 2 | • Chapter 2 (slides 19 – 47) | 14 | • Chapter 5 (slides 62 – 82) |
| 3 | • Chapter 2 (slides 48 – 59)• Chapter 3 (slides 1 – 24) | 15 | • Chapter 5 (slides 83 – 105) |
| 4 | • Chapter 3 (slides 25 – 51) | 16 | • Chapter 6 (all) |
| 5 | • Chapter 3 (slides 52 – 79) | 17 | • Chapter 7 (slides 1 – 23) |
| 6 | • Chapter 3 (slides 80 – 98) | 18 | • Chapter 7 (slides 24 – 45) |
| 7 | • Chapter 4 (slides 1 – 37) | 19 | • Chapter 8 (all) |
| 8 | • Chapter 4 (slides 38 – 71) | 20 | • Chapter 9 (all) |
| 9 | • MidTerm Exam | 21 | • Chapter 10 (all) |
| 10 | • Chapter 4 (slides 72 – 95) (zoom) | 22 | • Hypothesis Testing (all) |
| 11 | • Chapter 4 (slides 96 – 107)• Chapter 5 (slides 1 – 13) | 23 | • Chapter 11 (slides 1 – 25) |
| 12 | • Chapter 5 (slides 14 – 38) | 24 | • Chapter 11 (slides 26 – 40) |

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| **Day** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| **FA** | Sept6 | Sept 11 | Sept 13 | Sept 18 | Sept 20 | Sept 25 | Sept 27 | Oct2 | Oct4 | Oct 16 | Oct 18 | Oct 23 |
| **FB** | Sept5 | Sept7 | Sept 12 | Sept 14 | Sept 19 | Sept 21 | Sept 26 | Sept 28 | Oct3 | Oct5 | Oct 17 | Oct 19 |

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| **Day** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** |
| **FA** | Oct 25 | Oct 30 | Nov1 | Nov6 | Nov8 | Nov 13 | Nov 15 | Nov 20 | Nov 22 | Nov 27 | Nov 29 | Dec4 |
| **FB** | Oct 24 | Oct 26 | Oct 31 | Nov2 | Nov7 | Nov9 | Nov 14 | Nov 16 | Nov 21 | Nov 23 | Nov 28 | Nov 30 |

**Assignment Due Dates**

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| **Assign** | **Due** | **Assign** | **Due** | **Assign** | **Due** |
| #1 | Fri, Sept 15/23 | #5 | Fri, Oct 20/23 | #9 | Fri, Nov 17/23 |
| #2 | Fri, Sept 22/23 | #6 | Fri, Oct 27/23 | #10 | Fri, Nov 24/23 |
| #3 | Fri, Sept 29/23 | #7 | Fri, Nov 3/23 | #11 | Fri, Dec 1/23 |
| #4 | Fri, Oct 6/23 | #8 | Fri, Nov 10/23 | #12 | Practice |