**CSCI 360-1 Computer Programming in Assembler Language Fall 2017**

**Course Schedule**

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| **Week** | **Topics** | **Action Items** | **Reading** |
| **1** | * Course Syllabus, Marist KC-IDs, signing on, and using ISPF. * Number systems, hex and binary operations, structured programming, and main storage organization. * Documentation standards. | Assign 1\* | Ch. 1.1-1.7  Ch. 4.1-4.2 |
| **2** | * Overflow, registers, and addressing. * Program organization: CSECT, LTORG, DS, DC, END. * Instructions: A, AR, S, SR, L, ST, LA. * Explicit and implicit addressing. |  | Ch. 1.8-1.9  Ch. 2.1-2.4 Ch. 2.9 |
| **3** | * Finish RR and RX instructions: C, CR, BC, BCR. * X-instructions: XDUMP, XREAD, XPRNT, XDECO, XDECI. * Input and Output and file processing. | Assign 2 | Ch. 2.5-2.8  Ch. 11 |
| **4** | * Program Status Word (PSW). * Instructions: LTR, LPR, LNR, LCR, MR, DR, M, D. * Extended mnemonics and literals. |  | Ch. 2.9-2.13 |
| **5** | * Instructions: BAL, BALR, BCTR, STM, LM. * Internal subroutines, address constants and parameter lists. | Assign 3 | Ch. 3.4-3.6 |
| **6** | * Finish internal subroutines. * Table processing and sorting. |  | Ch. 3.4 |
| **7** | * Instructions: MVC, MVI, CLC, CLI. * Referencing the location counter and ORG. * Packed decimal arithmentic. | Assign 4 | Ch. 4.3-4.6  Ch. 5.1 |
| **8** | – Instructions: PACK, UNPK, AP, SP, ZAP, CP, MP, DP, SRP.  – Decimal and zoned numbers.   * P-type, Z-type, and X-type constants.   **Midterm Exam: In class on Friday, 10/20/2017.** |  | Ch. 5.2-5.5  Ch. 5.7 |
| **9** | * Instructions: ED, EDMK, CVD, CVB. * External subroutines. | Assign 5 | Ch. 5.6  Ch. 5.8-5.9  Ch. 6.1-6.2 |
| **10** | * More about external subroutines. * Standard linkage conventions. * Passing parameters. * Invoking external subroutines. |  | Ch. 6.2-6.4 |
| **11** | * Finish external subroutines. * DSECTs. * Table building. * Searching using hashing. | Assign 6 | Ch. 6.5 |
| **12** | * Instructions: N, NR, NI, NC, O, OR, OI, OC, X, XR, XI, XC, TM, SLL, SRL, SLA, SRA, IC, STC, ICM, STCM, EX. * Bit manipulation. |  | Ch. 8.1-8.4 |
| **13** | * Instructions: LH, STH, AH, SH, STH, CH.   **Thanksgiving Holiday: No classes Weds., 11/22-11/24/2017.** |  | Ch. 8.5-8.6 |
| **14** | * Macros. |  | Ch. 9 |
| **15** | * Macros. * Catch up and review. | Assign 7 | Ch. 9 |
| **16** | **Final Exam: 8:00-9:50 AM on Weds., 12/13/2017, in PM 252.** |  |  |

***\*Unless otherwise specified, all assignments will be due by 11:59 PM on the Friday of the week specified.***

***Note that this schedule is entirely tentative.***