**PSYC 530-001 and 530-002: Cognitive Engineering**

**(Fall 2020)**

**Online Asynchronous (meaning you can do the work at your own time)**

**Instructor:** Prof. William “Deak” Helton

**Office:** 2063 David King Hall

**Office Hours (online):** By appointment – email and we can set up a distance meeting.

**Email:** [whelton@gmu.edu](mailto:whelton@gmu.edu) - note if you email **please use PSY530 in the subject line and which section you are in (001 or 002)** otherwise it may get screened out as spam.

**Text:** The text book is provided as chapter links (in Course Content at the bottom) –papers will also be distributed or links provided.

**Objective:** The course will provide you with an understanding of contemporary theories and research on Cognitive Engineering.

**Technology:** Powerpoint, computers, internet

**Honor Code:** GMU has an honor code. Follow it or the instructor may have to turn you in for violating it. This could have severe consequences, like failing this course, etc.

**Disabilities:**  If you are a student with a disability and you need academic accommodations, please contact me and contact the Disability Resource Services (DRS) at 703-993-2474. Accommodations have to be made officially through the Disability Resource Services office.

**Attendance Policy:** Online so there is no attendance, however, there are graded discussion posts which you must respond to for a grade (this is the equivalent of in class participation).

**Cancellation or Change Policy:** If anything needs to be cancelled, then the class will be emailed as soon as possible and alternative arrangements will be made.

**Grades:** Your grade will consist of marks from discussion posts, a chapter topic review paper (pick one of the chapters and write an updated review for a specific application), and a self-project.

**Discussion Board Responses (20%):** There are five discussion board topics. You need to respond to each item. You are being graded on participation; this is the part of the course replacing in-class participation. You can respond to others comments in your comment but remember to keep all comments professional and respectful. Each one is worth 4%. These are due by December 4, however, I strongly encourage you to start early with them. Most of them refer to one of the videos in the Course Content (there are a number of “lectures” there along with some associated papers).

**Review Paper (40%):** You will pick one of the chapters of the core text in the field: Engineering Psychology and Human Performance. This book is provided in Course Content at the bottom (under Book – the figure files are above; I can provide this because I am working on a new edition with the main author Chris Wickens). Your assignment will be to pick the chapter topic that interests you the most and write up a report about how you apply the chapter to a real world problem area. For example, let’s say I am interested in Chapter 7 (Memory and Training) and would like to consider how the chapter could be applied to virtual reality training systems that are deployed remotely (due to social distancing). I would then write a report about that topic. This may require looking for information beyond the chapter itself (like via Google Scholar). The report will be between 8-10 pages Times New Roman 12pt font and double spaced. This will be due electronically by December 4.

**Self-Project (40%).** You will conduct a self-experiment and a brief write-up of your findings. The information about this assignment is under the Assignments tab in Blackboard. It should be fairly self-explanatory if you read all the files in the Self Report link in the Assignments tab (read them all before emailing me questions). This will be due electronically by December 4.

**Grading Scale**

A+ 97+

A 93-96

A- 90-92

B+ 87-89

B 83-86

B- 80-82

C+ 77-79

C 73-76

C- 70-72

D 60-69

F 0-59

Important Dates

Dates and deadlines listed on this page include full semester and 7.5 Week Sessions only. Students enrolled in courses in the[8 Week Modular](https://registrar.gmu.edu/calendars/fall-2019/fall-2019-2/)Calendar need to refer to that calendar for their add/drop dates. ***Students in the modular calendar cannot also take courses in the full semester academic calendar. Academic calendar dates are subject to change***.

For add/drop deadlines for courses that meet less than a full semester, see [Non-standard Sections Dates](https://registrar.gmu.edu/calendars/fall_2020/#nonstandard).

***Incomplete Fall 2020 Coursework:*** Note that the previous deadline for completing work for the spring semester was Friday, October 23, 2020. The deadline for completing work related to an Incomplete grade received in Spring 2020 has been extended to the end of the Fall 2020 semester in response to the Spring 2020 [Coronavirus pandemic](https://www2.gmu.edu/coronavirus). This change is shown in *red italicized font* in the academic calendar below.

For graduation deadlines, please go to the [Graduation Timelines](http://registrar.gmu.edu/students/graduation/timelines/) page.

| Top of Form  **Search**    Bottom of Form | | | |
| --- | --- | --- | --- |
| **Description** | **Full Semester** | **7.5 Week: Session I** | **7.5 Week: Session II** |
| Schedule of Classes Available in PatriotWeb | Mon. Mar 9 | Mon. Mar 9 | Mon. Mar 9 |
| Priority Dates Begin | TBD | TBD | TBD |
| Consortium Registration Deadline | TBD | N/A | N/A |
| **First Day of Fall Classes:** Payment Due Date | Mon. Aug 24 | Mon. Aug 24 | Mon. Oct 19 |
| Last Day to Submit Domicile Reclassification Application | Mon. Aug 24 | Mon. Aug 24 | Mon. Aug 24 |
| **Last Day to Add:** All Individual Sections Forms Due | Mon. Aug 31 | Wed. Aug 26 | Wed. Oct 21 |
| Labor Day : University Closed | Mon. Sept 7 | Mon. Sept 7 | N/A |
| **Last Day to Drop: With 100% Tuition Refund** | Tue. Sept 8 | Fri. Aug 28 (Final Drop) | Fri. Oct 23 (Final Drop) |
| **Drop period begins: 50% Tuition Refund Period Begins** | Wed. Sept 9 | N/A | N/A |
| **Final Drop Deadline:** **Last Day for 50% Tuition Refund** | Tue. Sept 15 (Final Drop) | N/A | N/A |
| **Unrestricted Withdrawal Period: 100% Tuition Liability** | Wed. Sept 16 - Mon. Sept 28 | Sat. Aug 29 - Fri. Sept 11 | Sat. Oct 24 – Fri. Nov 6 |
| **Mid-term Evaluation Period:** 100-200 level classes - Grades Available via PatriotWeb | Mon. Sept 21 - Fri. Oct 16 | N/A | N/A |
| [**Selective Withdrawal Period**](https://registrar.gmu.edu/topics/selective-withdrawal/) - Undergraduate Students Only**(100% tuition liability)** | Tue. Sept 29 - Wed. Oct 28 | Sat. Sept 12 -Fri. Sept 18 | Sat. Nov 7 –Fri. Nov 13 |
| Fall Break (Classes Do Not Meet) | Mon. Oct 12 | N/A | N/A |
| Monday Classes/Labs Meet (Tuesday Classes Do Dot Meet This Week) | Tue. Oct 13 | N/A | N/A |
| **Incomplete Work** from Spring/Summer 2020 Due to Instructor | *Sat. Dec. 5* | N/A | N/A |
| **Incomplete Grade Changes** from Spring/Summer 2020 Due to Registrar | *Fri. Dec. 11* | N/A | N/A |
| **Thanksgiving Recess: No Classes (University Closed Nov. 26-29)** | Wed. Nov 25 - Sun. Nov 29 | N/A | Wed. Nov 25 - Sun. Nov 29 |
| **Dissertation/Thesis Deadline** | Fri. Dec 4 | N/A | N/A |
| **Last Day of Class** | Sat. Dec 5 | Mon. Oct 12 | Wed. Dec 9 |
| * [«](https://registrar.gmu.edu/calendars/fall_2020/) * [‹](https://registrar.gmu.edu/calendars/fall_2020/) * [1](https://registrar.gmu.edu/calendars/fall_2020/) * [2](https://registrar.gmu.edu/calendars/fall_2020/) * [›](https://registrar.gmu.edu/calendars/fall_2020/) * [»](https://registrar.gmu.edu/calendars/fall_2020/) | | | |

Part of Term and Tuition Liability Dates

There are standard Part-of-Term codes designated for courses that meet for the full semester **(1)**,the first half of the semester **(1F),** or the last half of the semester **(1L).**Some courses meet for less than the full semester and have modified add, drop, and tuition liability dates. The part-of term code for non-standard courses will be listed in the section notes on Patriot Web. *Please refer to the chart below for specific add/drop deadline dates. These dates are subject to change.*

**Please note:** Courses may be assigned to a Part-of-Term code that doesn’t necessarily match the exact start and end date for the section. Students should consult Patriot Web for the exact start and end dates for these non-standard courses.

Refer to the [Student Accounts website](http://studentaccounts.gmu.edu/) for more payment policies information and important tuition deadlines.

| **Part of Term Code** | **Dates** | **Last Day to Add** | **Last Day to Drop with 100% Refund** | **Final Drop Deadline (50% Refund)** | **Unrestricted Withdraw Period (Full Tuition Liability)** | **Selective Withdraw Period (Full Tuition Liability)** |
| --- | --- | --- | --- | --- | --- | --- |
| **Full Semester** (1) | 8/24 - 12/16 | 8/31 | 9/8 | 9/15 | 9/16 - 9/28 | 9/29 - 10/28 |
| **7.5 Week: Session 1** (751) | 8/24 - 10/4 | 8/26 | 8/28 (Final Drop) | N/A | 8/29 - 9/11 | 9/12 - 9/18 |
| **7.5 Week: Session II** (752) | 10/19 - 12/11 | 10/21 | 10/23 (Final Drop) | N/A | 10/24 - 11/6 | 11/7 - 11/13 |
| **8 Week: Session I** (81) | 8/17 - 10/11 | 8/24 | 8/24 | N/A | 8/25 - 9/13 | N/A |
| **8 Week: Session II**(82) | 10/14 - 12/15 | 10/21 | 10/21 | N/A | 10/22 - 11/15 | N/A |
| **First Half** (1F) | 8/24 - 10/11 | 9/1 | 9/4 | N/A | 9/6 - 9/8 | 9/9 - 9/16 |
| **Middle Half** (1M) | 9/7 - 10/25 | 9/14 | 9/17 | N/A | 9/19 - 9/21 | 9/22 - 9/29 |
| **Last Half** (1L) | 10/12 - 11/29 | 10/19 | 10/22 | N/A | 10/24 - 10/26 | 10/27 - 11/3 |
| **Independent Study** (1I) | 8/24 - 12/16 | 8/31 | 9/8 | 9/15 | 9/16 - 9/28 | 9/29 - 10/28 |

**\*As of Fall 2020, the**[**Selective Withdrawal**](https://registrar.gmu.edu/topics/selective-withdrawal/)**Period applies to degree and non-degree seeking undergraduate students only.**

**Office of the University Registrar**| **4400 University Drive, MS 3D1**| **Fairfax, Virginia 22030** | [**Contact Us**](http://registrar.gmu.edu/contact/)

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