



L'excellence à la portée de tous !

Un ministère de Calvary Chapel-Port-au-Prince

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## Syllabus

### Course Name

### INTRO TO COMPUTER ARCHITECTURE

- I. **Objectives** : Understanding computer architecture from a hardware engineer's perspective. Programming the Intel CPU in assembly language.
- II. **Prerequisites** : C programming knowledge
- III. **Course Materials** :
  - PDF manuals and references available to students on the first day of class.
  - Book: "But How Do It Know" (Google link: <http://a.co/17uTVAP>)
  - Circuit Design Simulation Software.
- IV. **Course Content** :
  - Computer architecture
  - Introduction to Assembler Language for the x86 platform.
  - Microsoft Visual Studio and MASM32 used as working tools (subject to change).
- V. **Course Regulations (Hybrid)** :
  - Combination of online and in-person classes by appointment.
  - Students must be present unless approved by the administration due to valid reasons.
  - Assignments must be submitted on the specified day, late assignments are not accepted.

## VI. Grading :

- Assignments and quizzes: 30%
- Tests: 70%

## VII. References :

- "Initiation à l'assembleur" (PDF):  
<http://www2.ift.ulaval.ca/~marchand/ift17583/Supplement2.pdf>
- OpenClassrooms - "En profondeur avec l'assembleur":
- <https://openclassrooms.com/fr/courses/1464031-en-profondeur-avec-lassembleur/1464136-programmer-cest-quoi>
- <https://openclassrooms.com/fr/courses/2288321-apprenez-a-programmer-en-assembleur-x86/2289485-manipulation-et-test-des-nombres>
- YouTube Videos:  
<https://www.youtube.com/watch?v=rxsBghsrvpI&list=PLKK11Ligqitg9MOX3>