

CPEN430: Digital Systems – Syllabus – Fall 2017

Lectures: T, R 12:25 PM - 1:40 PM, HRK 100

Lab. S01: M 2:10 PM - 5:00 PM, HRK 100

Office Hours:

- M 10:00 AM - 12:00 PM
- T, R 11:00 AM - 12:00 PM
- Feel free to walk-in anytime or to make an appointment

Instructor:

Claudio Talarico

Office: HRK 215 (PAC 204)

Tel: (509) 313-3561

Fax: (509) 313-5871

email: talarico@gonzaga.edu

www: <http://web02.gonzaga.edu/faculty/talarico/CP430/20172018>

Course Description

Modern methods of digital design realization. Technology independence. Designs utilizing field programmable gate arrays. Use of high level design software. Extensive use of VHDL for system description, simulation and implementation.

Recommended Textbook

- C. Roth, and L. John, *Digital Systems Design Using VHDL*, Cengage Engineering, 3/e, 2017

Additional References

- W.J. Dally, R.C. Harting and T.M. Aamodt *Digital Design Using VHDL. A System Approach*, Cambridge University Press
- V. Pedroni, *Circuit Design and Simulation with VHDL*, MIT Press

Grading Policy

| Letter | Percentage |
|--------|------------|
| A | 100-94 |
| A- | 93-90 |
| B+ | 89-86 |
| B | 85-82 |
| B- | 81-78 |
| C+ | 77-74 |
| C | 73-70 |
| C- | 69-66 |
| D+ | 65-62 |
| D | 61-58 |
| F | 57-0 |

Grading (late work will not be accepted)

- Homework: 10% (lowest score will be dropped)
- Labs: 30%
- Midterm: 30%
- Final: 30%

Important Dates

- Tuesday, Aug. 29 - Instruction Begins
- Monday, Sept. 4 - Labor Day
- Wednesday, Sept. 13 - Classes Cancelled
- Thursday, Oct. 12 - **Midterm Exam** - 12:25 PM - 1:40 PM, HRK 100
- Monday, Oct. 23 - Founder's Day
- Wednesday, Nov. 22 - Friday, Nov. 24 - Thanksgiving Holiday
- Friday, Dec. 8 - Last day of class
- Tuesday, Dec. 12 - **Final Exam** - 3:30 PM - 5:30 PM, HRK 100

Classroom Etiquette:

- Arrive in class on time
- Turn off cell phones
- No distracting conversations -- **relevant questions are strongly encouraged**

ADDENDA TO THE SYLLABUS

STATEMENT REGARDING COURSE EXPECTATIONS

As a Jesuit university that seeks to provide an equal opportunity to learn for all students, this course is offered with the expectation that students are here voluntarily, and understand that the university expects all interactions relating to its courses to occur in the context of a professional academic work environment that is welcoming and accessible to all students regardless of gender, race, ethnicity, religion, disability, sexual orientation or identity and any other non-merit factor in educational programs or activities. This environment includes virtual course environments, such as Blackboard, and any course-related communications via e-mail and social media. We strive to create a healthy environment conducive to intellectual honesty and free inquiry; as such, behaviors which constitute harassment, discrimination, or hostile and/or inappropriate conduct will not be tolerated, and faculty, staff and administrators will take action to ensure such matters are addressed promptly and appropriately.”

For inquiries or concerns about non-discrimination or the complaint process at Gonzaga, contact the Office of Equity and Inclusion, Business Services Center, 102 E. Boone Avenue or [509.313.5858](tel:509.313.5858) or 313-6910.”

A NOTE ON HARASSMENT, DISCRIMINATION AND SEXUAL MISCONDUCT:

Consistent with its mission, Gonzaga seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and Gonzaga’s policy prohibit gender-based harassment, discrimination and sexual misconduct. Gonzaga encourages anyone experiencing gender-based harassment, discrimination or sexual misconduct to talk to someone from the Campus and Local Resources list found in the Gonzaga’s Harassment and Non-Discrimination Policy found here:[http://www.gonzaga.edu/student-life/Community-Standards/harassment and discrimination policy.asp](http://www.gonzaga.edu/student-life/Community-Standards/harassment%20and%20discrimination%20policy.asp). It may be helpful to talk about what happened in order to get the support needed and for Gonzaga to respond appropriately. There are options for support and resolution, namely confidential support resources, and campus reporting and support options available. Gonzaga will respond to all reports of sexual misconduct in order to stop the harassment or misconduct, prevent its reoccurrence and address its effects. Responses may vary from support service referrals to formal investigations. As a faculty member, I want to get you connected to the resources here on campus that can help you in this situation and therefore will report all incidents of sexual misconduct and thus cannot guarantee confidentiality. I will provide our Title IX coordinator with relevant details such as the names of those involved in the incident, and Title IX will reach out to you to explore options for support, safety measures and reporting. For more information about policies and resources or reporting options, please visit the following websites:www.gonzaga.edu/eo and www.gonzaga.edu/titleix. If you would like to make a report of harassment, discrimination or sexual misconduct directly, you may contact the Title IX Coordinator by phone, email or in person by contacting:

For inquiries or concerns about gender-based harassment, discrimination or sexual misconduct or the complaint process at Gonzaga, contact Stephanie N. Whaley, Title IX Coordinator, Business Services Center, 102 E. Boone Avenue or [509.313.6910](tel:509.313.6910), whaleys@gonzaga.edu, www.gonzaga.edu/sexualmisconduct.

NOTICE TO STUDENTS WITH DISABILITIES/MEDICAL CONDITIONS:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability/medical condition requiring an accommodation, please call or visit the Disability Access Office in (room 209 Foley Library). You may find more information by visiting their website at: www.gonzaga.edu/disabilityaccess