

IT 320 Course Syllabus

2023-2024

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Class Hours: N/A – Online only class

Course Location: N/A – Online only class

A. Course description

Design and use of Content Management Systems (CMSs) to manage unstructured digital media throughout the enterprise, simplify the publication of Web content, and locate and link content at any level of an organization. Discussions will focus on key users, their roles and responsibilities, collaborative workflow, and versioning. Students will become familiar with available CMSs, build, configure, manage, and extend database-driven websites focusing on separation of the content's semantic layer from its layout. Prerequisite(s): IT 130

B. Organization

This is an **online only instructional course** with weekly readings, tutorials, and assignments.

This is a 10-week class.

The class work is divided up into 10 modules.

Each week's module work consists of a reading assignment, a tutorial and an assignment.

The weekly reading assignments are essential to understanding the material.

Please review the reading assignment material first, before starting the tutorial. Please complete the tutorial before starting the assignment. The tutorials and assignments are both required.

Reading assignments consist of presentations listed in D2L and online learning materials.

Tutorials are a series of D2L videos of the class instructor working through a tutorial instructions document. Students watch the videos and follow along doing the work. Periodically, the tutorial instructions will prompt students to take screen captures and paste them in a template document or answer questions in the template. Please save your template file and submit to D2L after you complete and review your tutorial template.

Assignments consist of building and configuring CMS websites to specifications provided in D2L instruction documents and recording screen captures of web pages.

Students will create WordPress and Drupal CMS websites during tutorials and assignments. Students can work individually or in small teams to master role-based security, comment

moderation using content management software.

There is no textbook to purchase. Students must acquire **one** cPanel shared web host (or Pantheon account) **and one** cloud-based CMS development account.

Web Host Account Options:

Shared Web Host Account (REQUIRED)

Students must acquire a cPanel shared web host account for this class.

Your options are to select from the list of provided web host accounts and purchase one.

In the first class I will walk through purchasing a Namecheap cPanel shared web hosting account.

I am recommending Namecheap as the preferred cPanel web host account for IT 320.

-1- Students who are unable to purchase the recommended **Namecheap** cPanel shared web host account may acquire/purchase a shared web host cPanel account of their choosing. Your **cPanel** hosted account must support up to 10 simultaneous WordPress, and Drupal CMS websites (most current versions). **Currently WordPress is at version 5 and Drupal is at version 9.**

To purchase your own Shared Web Host account, contact companies like BlueHost, GoDaddy, or HostGator. Please establish your discounted cPanel web hosting account subscription during the first week of class. Additional details on web host requirements will be reviewed during the first class.

-2- Pantheon as a Service (PaaS) - OPTIONAL

For those students who cannot acquire a cPanel shared web Hosting account, the instructor can provide access to a no-cost Pantheon account for the duration of this class. The Pantheon account is not a control panel (cPanel) account, which means it requires more effort to complete the tutorials and assignment class work. Students using Pantheon are required to install, configure and learn several software applications to be able to do the class tutorials and assignments.

PowerPoint presentations and training videos to aide students in install, configure, and use these tools are available on our class D2L site.

For Weeks 7-10:

If Pantheon has not upgraded to support building Drupal 9 CMS sites, students who did not acquire a Shared Web Host + cPanel account, and are using the Pantheon as the cPanel replacement can build Drupal 8 sites on Pantheon. An option for Mac users is to install and use the no cost Acquia Dev Desktop application to build Drupal 9 sites.

Cloud Based Account (Required)

A Codeanywhere cloud hosting account is required for IT320.

-1- Signup for the no-cost Codeanywhere account is done in the **first tutorial**.

Once the tutorial is submitted to D2L, the class instructor can begin the new account process, which must be completed by the student. Completing the process consists of replying to emails from Codeanywhere to verify and validate the account.

-2- DePaul provides a **no-cost** Codeanywhere account for the duration of the class.

The DePaul provided Codeanywhere account limits student users to one active CMS site at a time. The DePaul Codeanywhere account is a “Basic for Individuals” account. The Basic account is not robust and has had issues for the past few quarters. These issues range from being offline at critical times, like the day work in due, to users being unable to destroy or create new container connections. Additionally, Codeanywhere tech support is only available weeks days during working hours. The “Standard” and “Premium” accounts have not had similar issues and because of that we recommend students purchase their own “Standard” or “Premium” accounts.

-3- Students may choose to sign up for your [own](#) Codeanywhere subscription plan to have unlimited sites. We recommend the “Standard” or “Premium” accounts. Please contact Codeanywhere and apply for a student discount code to save up to 50%.

C. Learning outcomes:

1. Students will be able to:

- Define the core concepts of Content Management Systems.
- Report on how CMSs are modified and enhanced through plugins, templates, and modules.
- Explain how to use best practices to find, evaluate, and install CMS plugins, modules, and themes.
- Explain how to install and manage content in a CMS environment.
- Explain how role-based security works in a CMS environment.
- Demonstrate proficiency in WordPress site cloning and site migration.
- Demonstrate their ability to use CMS design techniques to create content.
- Demonstrate their ability to use PHP and SQL to create and deploy functional custom WordPress plugins.
- Demonstrate proficiency using taxonomy and vocabulary in a CMS environment.
- Explain how custom data types are used in a CMS system.
- Demonstrate proficiency in administering the CMSs reviewed in this class.
- Demonstrate proficiency in basic search engine optimization (SEO) settings for CMS websites.
- Demonstrate proficiency in administering basic CMS site security techniques.
- Evaluate the effectiveness of different CMSs, and make recommendations on when and how they should be used.
- Explain the steps to configure a WordPress CMS so it can be used to establish a secure GitHub repository.
- Demonstrate proficiency in creating a GitHub repository from a WordPress site.
- Demonstrate proficiency in creating a WordPress site from a GitHub repository.

D. Technical objectives:

1. Manage a webhost account
2. Manage a CMS development environment
3. Learn PHP

4. Learn SQL syntax
5. Learn basic BASH scripting
6. Learn basic Linux commands
7. Learn basic Composer commands
8. Learn how to create CMS websites with WordPress and Drupal
9. Learn best practices for extending CMS websites
10. Learn how to create and deploy custom WordPress plugins
11. Learn to manage and administer WordPress and Drupal CMSs
12. Manage MySQL databases

E. Conceptual objectives:

1. Understand CMS and its range of uses
2. Define a CMS related problem
3. Select a CMS platform based on client and project requirements
4. Use SDLC and UX for developing CMSs
5. Configure two CMSs well
6. Manage CMS environments
7. Use CSS, PHP, and SQL in CMS environments
8. Use Bash commands to build CMSs
9. Understand taxonomies and vocabularies in a CMS setting
10. Understand the impact of SEO for CMS
11. Understand the impact of CMS on mobile devices
12. How a CMS might be used
13. How an open-source development environment operates
14. Use composer commands to install DOTEnv.

F. Course topics:

1. CMS overview and sign up for Webhost and Cloud based accounts
2. Content Management System installation and management
3. Creating content for CMS sites
4. Defining custom content through data types, taxonomy, and vocabulary
5. Working with Drupal nodes: modules, menus, and forms
6. Role based security and CMS
7. CMS and mobile devices
8. Securing your CMS site
9. Testing CMS websites
10. PHP and SQL for CMS
11. Creating and testing WordPress custom plugins
12. CMS comment moderation
13. Best practices for organizing, managing and publishing CMS content
14. The impact of social media and CMS

15. The Software Development Life Cycle, UX and CMS Projects – Asking the right questions.

G. Text and required materials:

1. A textbook is not required. We will use D2L PDF presentations, and web articles
2. Access to a computer or laptop with web access
3. Student will acquire a web host account and a cloud-based CMS development account for the duration of the class
 - a. Namecheap is offering a very reduced rate on two of their cPanel shared web host accounts named Stellar and Stellar Plus. The Stellar Plus seems like the best fit account for IT 320.
 - b. Students can also purchase a shared web host **cPanel account** from companies like GoDaddy, [BlueHost](#), HostGator, A2 Hosting or sign up for another shared Web Host Company of your choosing. It must be a cPanel account.
 - c. DePaul provides a no-cost Codeanywhere accounts available for student use. Information on requesting an account can be found in the first tutorial. Students can also purchase their own Codeanywhere account for about \$5 a month. A Codeanywhere is required for IT320. Codeanywhere is a cloud-based development environment and is significantly less expensive than other cloud-based web host tools.
4. Web access for online articles.
5. **Word Processing program – Not Mac Pages.**
6. ASCII Text Editor
 - a. **Windows:** Notepad++, Edit++, Brackets, Visual Studio Code
 - b. **Mac:** BBEdit, Brackets, Visual Studio Code

H. Course breakdown and Grading Scale:

Course work will be weighted as follows:

Tutorials: 10 Tutorials 30%

Assignments: 10 Assignments 60%

Quizzes: 10%

Letter Grade	Percentage Points
A	100 - 97
A-	96.9 – 90
B+	89.9 - 87
B	86.9 - 83
B-	82.9 - 80
C+	79.9 - 77
C	76.9 - 73
C-	72.9 - 70
D	69.9 - 63
F	Below 62.9

I. Grading Time Table

Only work submitted to D2L is graded.

Please do not submit work via email.

Grading for work submitted on time is done within 3 to 5 days of submission to D2L.

Submitted late assignments are graded as soon as possible but may take longer than 5 days.

If you are keeping up with the work and submit work early, your work may be graded within 1 to 3 days.

J. Web Host Website Retention

As this is an online only ASYNC class

1. **Do not wait for grades to continue class work.**
2. **Do not keep older websites on your shared or cloud host accounts, especially if they prohibit you from continuing to work.**
3. If you are unable to submit completed work due to a closed/locked D2L submission folder, email the instructor immediately, and identify the module number, the assignment type(s) (tutorial and or assignment) and ask them to open the appropriate submission folder(s).

K. Attendance

This is an online only class. Students do not attend class.

Your class grade is based on the points you accrue doing the tutorial and assignment work and any extra credit.

L. Participation

As this is an online only class, students are expected to participate by doing the tutorials and assignments and asking questions by email. You can work independently or in small teams. Use the D2L discussion board to find and connect with fellow students. Working in small groups is encouraged as long as everyone submits their own assignment to D2L.

M. Reading assignments

Reading assignments will be sections from online articles. Reading assignment details will be made available during class, and posted on the DePaul D2L CMS. The reading assignments are an essential part of this class. Please read/review the assigned material before watching the weekly tutorial videos.

Please read through the module assignment rubric. The rubric contains valuable information about the assignment work and insight into coding expectations.

N. Getting Started Quizzes

The D2L section “Getting Started – Read Me First” has eleven (11) subsections that contain information about how to take this class and how to submit work to D2L. Seven (7) sub-section have quizzes that account for 10% of your grade. You may take the quizzes up to three (3) times before the D2L quizzes close. The getting started section contains critical information and is a must-read section.

Please read the getting started material (which includes the class syllabus) and watch the accompanying video and take the seven quizzes during the first week of class.

If you have question, please check the "IT 320 FAQ".

If you do not find and answer in the class FAQ or the syllabus or this "Getting Started" D2L section, please contact the instructor with your questions and concerns.

Read and watch the following documents and videos and **take all the required D2L quizzes** in this section before starting any work

- (1) Welcome to IT 320 Video- Please watch this first
- (2) IT 320 Syllabus **(QUIZ)**
- (3) Class in a Nutshell - Overview of IT 320 **(QUIZ)**
- (4) How to take this online only class **(QUIZ)**
- (5) Information on Web Host Accounts for IT 320 **(QUIZ)**
- (6) How to Take a Good Screen Capture - D2L content + PDF Presentation (with lots of examples) **(QUIZ)**
- (7) How to submit Completed Templates to D2L **(QUIZ)**
- (8) Assignment Due Dates - Chart of all Tutorial and Assignment dates **(QUIZ)**
- (9) Information for students with disabilities
- (10) About the Dean of Students (DOS)
- (11) IT 320 FAQ: D2L content - The class FAQ

O. Weekly class tutorials and assignments

Tutorials and assignments are required.

Each week, we will introduce content management topics by creating, configuring, and managing a content management website. The instructions for the tutorial work are contained in tutorial instructions documents posted on D2L.

Each week, students watch and follow along (doing the work) with the weekly tutorial video while also reading the tutorial instructions. Answers and screen captures are recorded in a tutorial template file. Upon completion of the tutorial, students submit the tutorial template to the D2L submission folder (AKA Dropbox) for grading. After completing the tutorial, students work an assignment.

The instructions for the work are contained in an **assignment instructions document** that is posted on D2L. Students download and review the weekly assignment assets, instructions, template and rubric before doing the work. The assignment instructions will periodically prompt you to take screen captures of your work, paste them into an assignment template file and submit the completed assignment template to D2L for grading. Grading is based on a rubric.

P. D2L Learning Content - Presentations and additional videos

Each D2L module contains one weeks of learning content.

This is a ten-week class, and the modules are named and numbered Module 01 to Module 10.

There is a Module 11, and there is no learning content in it. It contains information for last minute instructor meetings to resolve assignment and grading issues.

Each week's module (01-10) contains the following learning content sections:

- (1) CMS Questions – A review of materials covered
- (2) Tutorials – Contains the tutorial assets, instructions, template, and videos

- (3) Assignment - Contains the assignment assets, instructions, template, rubric
- (4) Assignment videos – [Some sections contain additional assignment videos](#)
- (5) Presentations – Contains individual PDF presentation covering current weeks topics
- (6) PHP Examples – Contains PHP file examples specific to PHP topics covered
- (7) PHP Solutions – This section is set to display after the assignment due date
- (8) Reading for next class – Lists reading assignments for the next weeks module
- (9) Videos – [Some sections contain additional training videos](#)

Q. Use your own device or a DePaul computer

Your device must be able to connect to the Internet. If you are working at DePaul, you must be able to connect to the DePaul WIFI network. We build content management websites using web-based software. You must be able to access your Web Host account to do the classwork.

R. Only work submitted to D2L is graded

Please do not email work to your instructor.

Please submit your work to the D2L submission folders by their due date and time for full credit and before their end date for partial credit.

S. Submitting work to D2L submission folders

Accepted file formats for D2L submission folders are **Microsoft Word** or **PDF**.

Please **do not** submit **Mac Pages, Rich Text (RTF), Open Office, or Zip** files to D2L.

Please do not take full desktop or full screen captures as they may make your template document too large to upload and D2L may be unable render/display your document.

Reduce the width of the web browser and then take the screen capture to create images that fit and display appropriately on D2L.

If D2L will not render/display the template or instructor cannot grade your assignment in D2L, they will ask you to resubmit a corrected template.

T. Class assignments

Students will create, configure, and publish content to CMSs.

Assignment due dates will be published on D2L. Students will submit assignments to D2L using a template document. Each assignment will have a corresponding instructions document and deliverables checklist. Students will complete the required items on the checklist to receive full assignment credit. The assignment grade rubric is in a separate document, also posted on D2L. Students should not delete the class assignment CMS until after the assignment is graded.

Assignment instructions, templates, and rubric files are provided on D2L.

To complete an assignment, download the instructions and template files.

Follow the instructions and answer questions and paste screen captures into the template file.

Please do not alter the template file numbering scheme.

U. Tutorial and assignment grade weight

Tutorials and assignments are required.

Getting Started Quizzes 10% of the grade.

10 Tutorials for 30% of the grade.

10 Assignments for 60% of the grade.

V. Tutorial and assignment D2L submission rules and due dates

Completed tutorial and assignment template files are submitted to D2L submission folders.

There is a submission folder for each week's tutorial and a different folder for the assignment template.

D2L submission folders have due dates and times listed on D2L.

Tutorial and assignments are due on their assigned due date and time.

Please check D2L to verify class work due dates and times.

Students are responsible for checking D2L and being aware of homework due dates and times.

Late tutorials and assignment will receive point deductions.

D2L submission folders have posted end dates.

Students must submit work before the module end date for partial credit.

Students cannot submit work after the D2L submission folders close or after class ends.

This class ends when Assignment 10 is due.

There are no extensions for week 10 class work (tutorial and assignment).

Week 10 does not have a grace period for submitting late class work.

Students cannot submit templates by email.

Templates sent by email will not be graded.

To receive a grade, students must submit their tutorial and assignment templates to the correct D2L submission folder.

There are 10 Modules (weeks) of work in this class.

All modules are available on D2L and OneDrive at the beginning of the quarter.

Each module has required reading, tutorial and an assignment.

Students have approximately 5-7 days to watch and work the tutorial and assignment.

W. Late tutorial and assignment penalty point deductions

If you are concerned about your grade or you are feeling overwhelmed, contact the instructor immediately and they will do everything they can to help.

Anyone should be able to do well in this course if they do the work on time and ask for help proactively.

Please do not wait until it is too late to ask for help!

Students are responsible for knowing due dates and times.

Late submissions are subject to deductions.

Less than an hour late: -3%

Between 1 and < 12 hours late: Up to -5%

Between 12 and <= 24 hours (1 day) late: Up to -10%

Between > 24 and <= 36 hours (1.5 days) late: Up to -14%

Between > 36 and <= 48 hours (2 days) late: Up to -18%

Between > 48 and <= 60 hours (2.5 days) late: Up to -20%

Between > 60 and <= 72 hours (3 days) late: Up to -25%

Between > 3 days and <= 4 days late: Up to -30%

Between > 4 days and <= 5 days late: Up to -35%

After 5 days: -40%

Drop boxes close at the listed end date.

Work will not be accepted after the D2L posted end date.

Module 10 does not allow late submissions.

It is the last module of the quarter.

Tutorial and Assignment 10 are due the last day of the quarter.

X. Tutorial and assignment extensions

Extensions are granted for extenuating circumstances, not for poor time management issues.

Extensions remove the late penalty deductions.

Extension requests must be submitted by email at least 24 hours prior to the due date and time.

Extensions are usually between 1 and 3 days.

If an extension is granted, the student must submit by the agreed upon date and time.

If the student fails to submit by the extended due date, the assignment may not be graded.

Assignments can be submitted for partial credit as long as they are submitted before the D2L end date.

Y. D2L submission folder closures

Assignments that are not submitted on time can be submitted for partial credit as long as they are submitted before the D2L end date.

Module 10 does not allow late submissions.

It is the last module of the quarter.

Tutorial and Assignment 10 are due the last day of quarter.

There is no grace period for submitting late module 10 assignments.

Z. Getting instructor assistance

The class D2L site has a section named “**Getting Help and Reporting Bugs**”.

To ask questions or get help on an assignment your instructor requires access to your web host and your CMS website.

You provide this information in an email, using the D2L Issue Resolution Form (IRT).

Download the IT320 Issue resolution template (IRT), fill it out, put the form contents in an email body, and send it to the instructor ASAP.

The instructor will respond to your IRT email within 24 hours **Monday through Friday**.

Always verify the IRT web host and CMS website login credentials before sending.

Please do not send screen captures of web host or CMS website login credentials.

The instructor can only resolve your issues if your web host and CMS site credentials are valid.

Virtual help is available from instructor during office hours and by appointment.

Please make a **HubSpot** appointment for a 15 min block during posted office hours.

The HubSpot link is posted in our class D2L.

If office hours do not work for you, please list available dates and times and the instructor will attempt to work something out.

All assistance will be delivered over Zoom conferencing and is limited to 15 minutes.

You must email the instructor an IRT form prior to the office visit to get help with an assignment.

Please provide your phone number, to help the instructor schedule and confirm your Zoom meeting.

All office hours are virtual until further notice.

Office hours are by appointment and can be a phone call or Zoom meeting.

Office hours zoom link info is on D2L. Search D2L using tags #office-hours or #virtual-office-hours

AA. Getting help from DePaul tutors

DePaul CDM Tutoring Website:

<http://www.cdm.depaul.edu/Current%20Students/Pages/TutoringProgram.aspx>

The primary location of the Tutoring Center is on the Lobby Level of the CDM building.

The tutor for networking courses is located in room 348, the networking lab.

An appointment with a specific tutor can be scheduled through MyCDM.

BB. Getting help with Shared Web Host & Codeanywhere Accounts

Please keep track of your web host accounts usernames and passwords.

The instructor can delete and recreate your Codeanywhere account, but cannot reset your password.

If you are having issues with building CMS sites on any web host, please check the D2L content FAQ and D2L site notices first for web host outage notifications.

If there is a web host outage, others may also be affected and there may already be information posted on D2L.

For other web host CMS issues, please create a support ticket on your web host site.

The create support ticket link is under the D2L content, Help menu item.

CC. Finding and reporting Bugs

If while reading a presentation, or doing an assignment, you notice a misspelling, or a typo, or a bug, report it with the BRECT form and get extra credit points toward your final grade.

Bugs are awarded points on a first come first served basis.

Once a bug is reported, it will be listed on D2L class site notice section as reported and again when it's fixed.

Please do not send text messages about bugs or typos.

Please use the BRECT form to report all D2L content, presentation and assignment bugs.

Fill the BRECT template form with your name, class type designation and contact information and information about the bug, typo, or problem.

Copy and paste the template form content into an email body and send it to the instructor.

The instructor will review your claim information, and respond by email.

If the instructor can find and fix the bug(s) you discovered, you will be awarded significant extra credit points.

DD. Extra credit

Extra credit can be earned by doing extra credit projects and reporting bugs.

Extra credit can be a max of 1%.

Extra credit is not indented to replace lost points from missed tutorials or assignments.

EE. Emergency school closure information

Info on emergency closure can be found at

<https://resources.depaul.edu/emergency-plan/FacilityEmergency/Pages/EmergencySchoolClosure.aspx>,

In the event of a large-scale class cancellation or closure, a University-wide e-mail will be issued.

A voicemail message will also be posted on the University's general announcement line at 312/362-6226 or main telephone number at 312/362-8000.

Additionally, the DPU Alert system may be utilized and a banner on the University's homepage with closure information may be activated.

The University may also post information on the University's social media.

This is an online only class. Class due dates are not affected by emergency school closures.

FF. Policy and procedure for an Incomplete

An incomplete is given only for an exceptional reason.

Any such reason must be fully documented (by the student) before an incomplete can be given.

The Dean/Associate Dean must approve all incomplete requests.

A copy of this request will be placed in the student's academic file and the student will be notified of the result via email.

All remaining requirements must be completed with the original instructor.

You must have a passing grade to qualify for an incomplete.

They are for emergency use, for when you find yourself in a situation and you cannot complete the course and only have an assignment or two left unfinished.

A majority of the course work must have already completed to qualify for an incomplete.

Incompletes are applied for in the last few weeks of class.

GG. Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the [University Academic Calendar](#).

Information on enrollment, withdrawal, grading and can be found at: cdm.depaul.edu/enrollment
Here is a link to the policy and procedure for filing an incomplete:
<http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx>

HH. Preferred name and gender pronouns

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the quarter so that I may make appropriate changes to my records. Please also note that students may choose to identify within the University community with a preferred first name that differs from their legal name and may also update their gender. The preferred first name will appear in University related systems and documents except where the use of the legal name is necessitated or required by University business or legal need. For more information and instructions on how to do so, please see the Student Preferred Name and Gender Policy at <http://policies.depaul.edu/policy/policy.aspx?pid=332>

II. Tentative Week-By-Week Schedule

Module 1 – 8

Topics:

- Introduction to CMS – Core concepts defined
- What is content? What is data?
- Review of DePaul D2L (CMS) – Organization and location of class materials
- Review of assignment submission templates
- How to submit assignments in D2L
- Host and domain requirements and costs
- Sign up for a shared web hosted and **cloud** web account
- Class overview of assignments, grading, due dates, expectations.
- Getting help with class assignments
- Demonstrations in Tutorial 01:
 - cPanel overview
 - How to build an In-Directory WordPress site on shared web hosts
 - Pantheon (PaaS) demo – WordPress site building demo
 - Cloud Demo – Codeanywhere WordPress build
- Review of Web PHP Emulation Website tools
- Introduction to PHP: Start and end tags, variables, comments, statement terminators
- Troubleshooting PHP errors
- Extending WordPress through menus, images, Plugins, Widgets, and Themes
- WordPress extensions best practices
- Creating custom WordPress Plugins
- Versioning WordPress on GitHub

- Adding JavaScript to WordPress
- Relational Database:
 - Learn phpMyAdmin RDBMS
 - Create tables
 - Import/Export tables
- PHP:
 - String concatenation operator & HTML formatted output
 - Arithmetic operators
 - Troubleshooting PHP errors on topics covered to date
 - Index and associative arrays
 - Functions: arguments, handling returns
 - Prewritten functions: gettype, sizeof, strlen, trim, empty, number_format, print, print_r, var_dump
 - Object Oriented PHP – classes, objects, object arrays
 - Exception Handling
 - Scalar Type Declarations

Module 9 – 10: Drupal

A new and improved core version of Drupal is supposed to be available in mid to late December 2022.

The new Drupal core version is 10.

Our current D2L class learning material was developed for Drupal version 9.

When new Drupal core version go live there usually is a period of instability.

If Drupal resolves issues by the time our class starts, and there is enough time to do so, we will attempt to update our D2L class learning materials to cover the new Drupal 10 version.

If not, we will continue to use Drupal version 9, or shift to a tool set that supports Drupal 10.

We may also have to deal with issues building and maintaining Drupal on our shared and cloud web host platform companies. If our shared and cloud web host companies have issues supporting Drupal, then we may be forced to shift using Pantheon PaaS for our Drupal Modules 7-10 class work.

Pantheon has said on their website that they will support building and using both Drupal 9 and 10.

If we must shift to using Pantheon, your instructor will create DePaul managed Pantheon accounts for all class students using your DePaul email.

Please keep an eye on our D2L class notices so that you are up to date on all class changes and news about modules 7-10.

Class Topics:

- Review Drupal backend toolbars
- Understanding Drupal core, contributed, and custom modules
- Creating website content using Drupal using core modules
- Extending Drupal using contributed modules and JS libraries
- How to remove and delete Drupal contributed modules
- Creating custom content types
- Creating custom views
- Creating Drupal Taxonomy, vocabulary and terms
- Drupal Client facing and Backend administration themes
- Composer version manager

Module 11

No Class – remote office hours only.

Module 11 signals the end of this class and the start of finals week. This class does not have a final.

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email. This includes late assignment deductions and due dates

Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students complete the evaluation online in [CampusConnect](#).

Academic Integrity and Plagiarism

This course will be subject to the University's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>.

If you have any questions please contact your instructor.

All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

The DePaul Student Handbook defines plagiarism as follows: "Plagiarism includes but is not limited to the following: (a) The direct copying of any source, such as written and verbal material, computer files, audio disks, video programs or musical scores, whether published or unpublished, in whole or in part, without proper acknowledgement that it is someone else's. (b) Copying of any source in whole or in part with only minor changes in wording or syntax even with acknowledgement. (c) Submitting as one's own work a report, examination paper, computer file, lab report or other assignment which has been prepared by someone else. This includes research papers purchased from any other person or agency. (d) The paraphrasing of another's work or ideas without proper acknowledgement." Plagiarism will result in a failure of the assignment or possibly of the course. If you are unsure of how to cite a source, ask!

Please answer tutorial and assignment template questions with your own work.
Answer in your own words.

Do not copy and paste answers from the world wide web.

Our DePaul Student Handbook defines that as plagiarism.

Questions are based on the class D2L learning material.

Please use the provided D2L course material to answer questions.

Students who violate these rules will receive a failing grade for the assignment and be reported for student code violations.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the [University Academic Calendar](#). Information on enrollment, withdrawal, grading and incompletes can be found at: cdm.depaul.edu/enrollment.

Students with Disabilities

Students who need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at: csd@depaul.edu.

Lewis Center 1420, 25 East Jackson Blvd.

Phone number: (312) 362-8002

Fax: (312) 362-6544

TTY: (773) 325.7296

Course Policies

Late Registrants: Students who register for this class late are responsible for making up all late assignments. They should also contact the instructor ASAP to discuss any possible assignment extensions.

Preparation: Students are expected to prepare for class by reviewing the module CMS questions, tutorial and assignment instructions, and presentations before class. This is an instructional class. Preparation for class is essential.

Attendance: This is an online only class. There is no attendance. Student participation is measured by submitting the assignments to D2L. Three or more missed assignments may constitute failure for the course.

Class Discussion: This is an online only class so there is no class discussion.

Attitude: A professional and studious attitude is expected throughout this course. If any issues arise, the instructor will work with the Dean of Students to resolve these issues.

Civil Discourse: DePaul University is a community that thrives on open discourse that challenges

students, both intellectually and personally, to be [Socially Responsible Leaders](#).

It is the expectation that all dialogue in this course will be civil and respectful of each student. Any instances of disrespect or hostility may jeopardize a student's ability to be successful in the course. The instructor will work with the Dean of Students to resolve these issues.