

INTRODUCTION TO INSTRUCTIONAL DESIGN: TRANSFORMING YOUR CLASSROOM ONLINE

NICOLE RHOADES

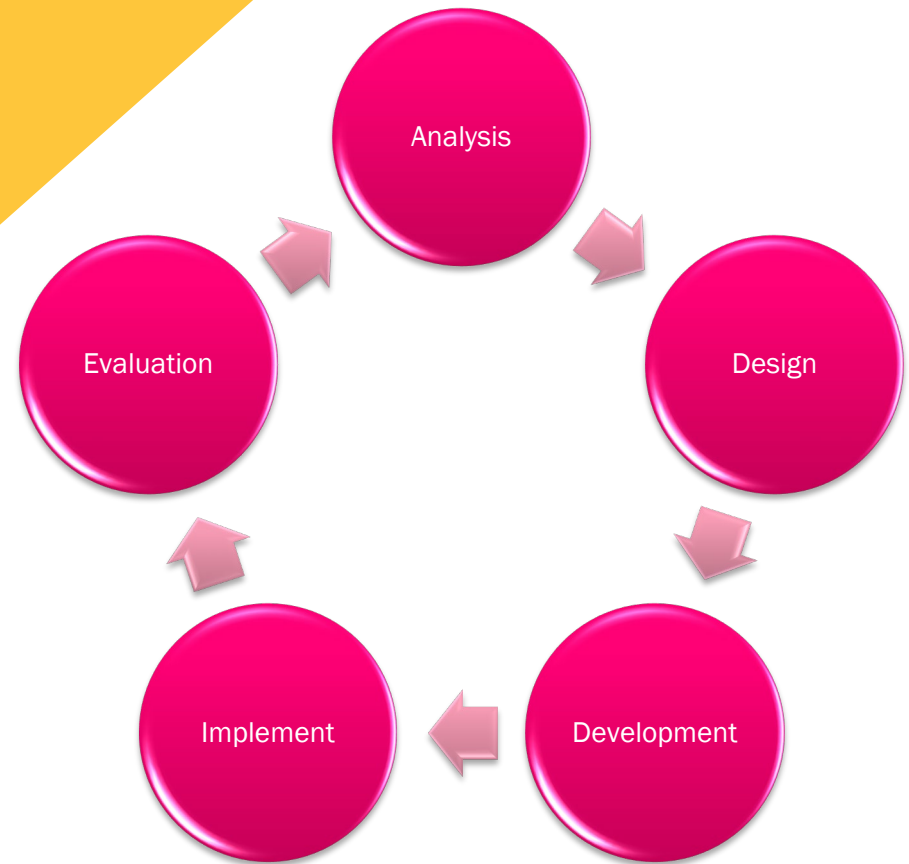
LEARNING OBJECTIVES

- Describe one of the instructional design processes, ADDIE.
- Create content using PowerPoint, that could be transformed into an online module for HuskyCT.
- Perform a submission of a project request form to the AITS department.

INSTRUCTIONAL DESIGNERS

- Examines how people learn, and designs materials accordingly to help them reach their learning objectives
- Analyzes, designs, develops, and evaluates (ADDIE model except implement)
- Must be flexible, creative, and innovative
- Materials include in-person classroom content, e-learning courses/modules, and additional online content
- IDs must be good relationship-builders, knowledgeable of the intended audience, and base materials on research and practice

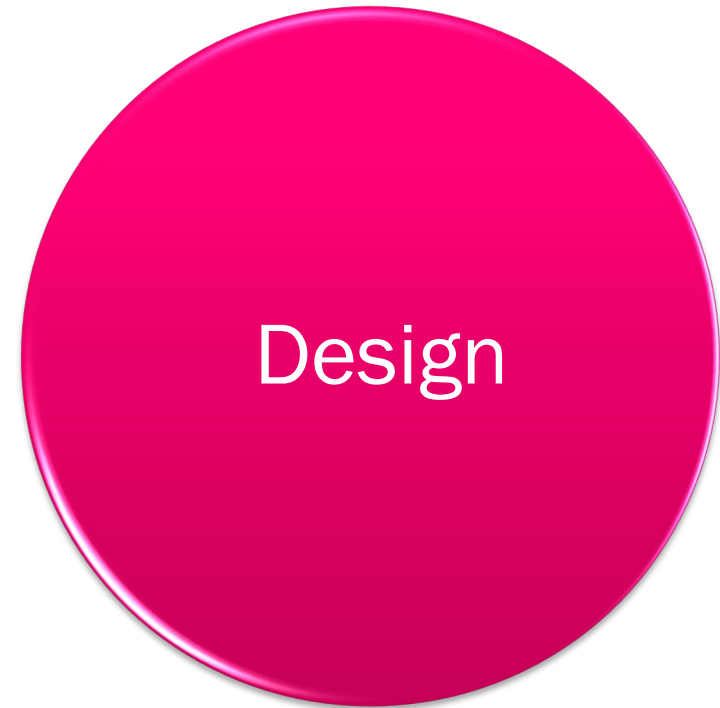
THE ADDIE MODEL



- What do you want your students to gain from the course?
- What are the learning objectives?
- What do students already know? Is everyone on the same level for this content?
- What materials will be used to present the content?



- Determine teaching strategies, assessment methods, timelines, etc. to help the students reach their learning objectives.
- Set a structure for the entire course (weekly, daily, monthly, etc.).



- Create materials that include the following:
syllabus,
assignments,
assessments,
rubrics,
multimedia
objects, etc.



- **Go time! Begin using the materials created for the course, while monitoring students and their performance to see if the materials are effective.**



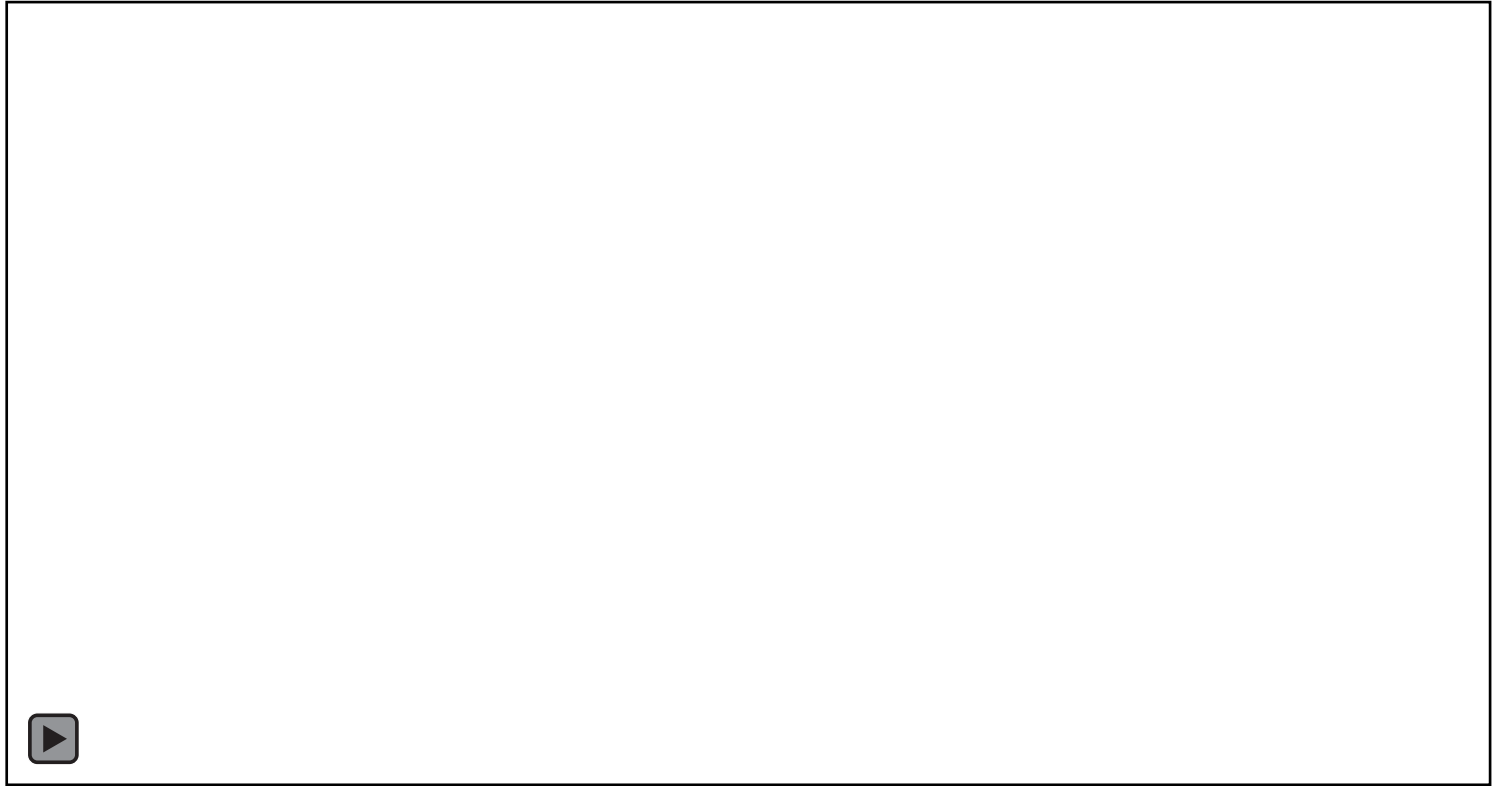
Implementation

- Did the students reach the goals set for them?
- What worked well and what didn't work well?
- How can this course be improved for the future?



HOW CAN A POWERPOINT PRESENTATION BE TRANSFORMED INTO AN ONLINE MODULE OR COURSE?

FACIAL SPACES – COURSE REDESIGN



JEOPARDY – RADIOLOGY HOMEWEEK SESSION

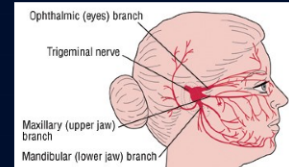
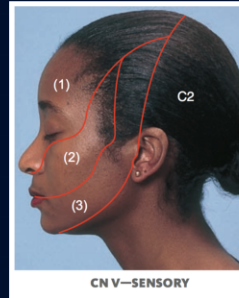


PLACENTAL PATHOBIOLOGY - ILO



CHEEK PAIN CLUSTER MODULE – DOCC A

Sensation of cheek – supplied by cranial nerve 5 (trigeminal nerve) branch 2



Dermatome = localized area of skin that has its sensation via a single nerve from a single nerve root of the spinal cord

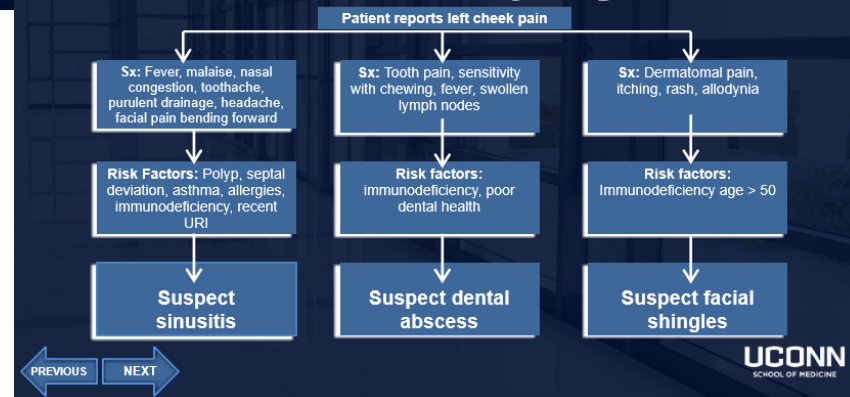
Case Presentation

- A 29 year old woman presents to your office with left-sided cheek (maxillary) pain x 3 days.
- Goal is to use your history and physical exam to make a diagnosis whenever possible.
 - Avoids unnecessary exposure to harm (ex. Radiation)
 - Avoids unnecessary cost to the patient and healthcare system
- Hint: consider what anatomical structures are present in the area of pain as a starting place for thinking about the possible causes of the pain.



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Cheek Pain History Algorithm



ABNORMAL BREATH SOUNDS MODULE – DOCC D

Abnormal Breath Sounds

First – The Normal Breath Sounds ('vesicular breath sounds')

Hover over the orange circle below to hear tracheal breath sounds



Hover over one of the blue circles above to hear vesicular breath sounds

Normal breath sounds are low pitched, present throughout inspiration and slightly into expiration, and fairly...unimpressive.

If you are listening closer to trachea, they might be a little higher, louder, and longer ('bronchovesicular'). Ideally, a thorough lung exam entails 3 spots in back, 3 anteriorly, and 1 on each side laterally.

You can see how the 'spots' correspond to anatomic areas of the lungs. If you listen over the upper trachea, the sounds are louder, higher pitched, and equal in inspiration and expiration. These are called 'tracheal breath sounds' (orange circle). You should only hear this type of sound over the trachea.... normally.

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Abnormal Breath Sounds

What would be the findings on lung exam for each of the following? (auscultation, percussion, adjunct maneuvers)



Left sided Pleural Effusion



Right sided spontaneous pneumothorax



Pneumonia, R upper lobe

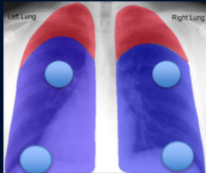
No answers will be provided. Work these through on your own.

Abnormal Breath Sounds

Case 1

A 72 year old woman presents to the office with dyspnea and cough over past 3-4 wks. She also has some leg swelling and wakes up at night short of breath.

On auscultation of lungs posteriorly, spot #3, you hear the following:



Hover over the circles above, where do you hear the crackles?

These are present in inspiration and are popping or crackling sounds. They are often referred to as 'discontinuous' sounds (think Velcro or bubble wrap). 'Fine' crackles are softer, shorter, more uniform than 'coarse' (louder, more gurgling). The term 'crackles' is now generally preferred instead of the older term, 'rales', though you will still see and hear the term 'rales' (which are same as crackles). Crackles represent small airways and alveoli 'popping open' during inspiration when they are filled with or surrounded by fluid or scar tissue or are stiff.

The following dx's all have crackles usually:

- Heart Failure – often 'fine' and may be late in inspiration; heard at bases, go higher up the worse the heart failure
- Pneumonia – commonly heard over area of pneumonia
- Pulmonary fibrosis (inflammation and scarring of lung)
- Atelectasis – crackles may clear with cough or breathing

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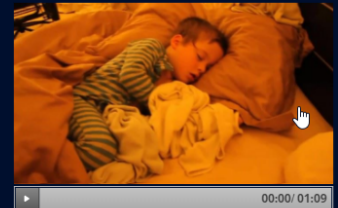
Case 3

A 3 year old boy is brought in to the ER from a friend's birthday party for respiratory distress. Here is how he looks and sounds:

This is a **harsh** INSPIRATORY sound that usually comes from obstruction or narrowing of the upper airway 'extra-thoracically' (epiglottitis, larynx, upper trachea)

Can be caused by

- Inhalation, aspiration of a foreign body
- Anaphylactic reaction
- Infections in the area of the upper airway
- Tumors in the area of the upper airway
- Scarring or atrophy of the larynx/trachea from prior injury or intubation ('stenosis')
- Vocal cord paralysis or dysfunction

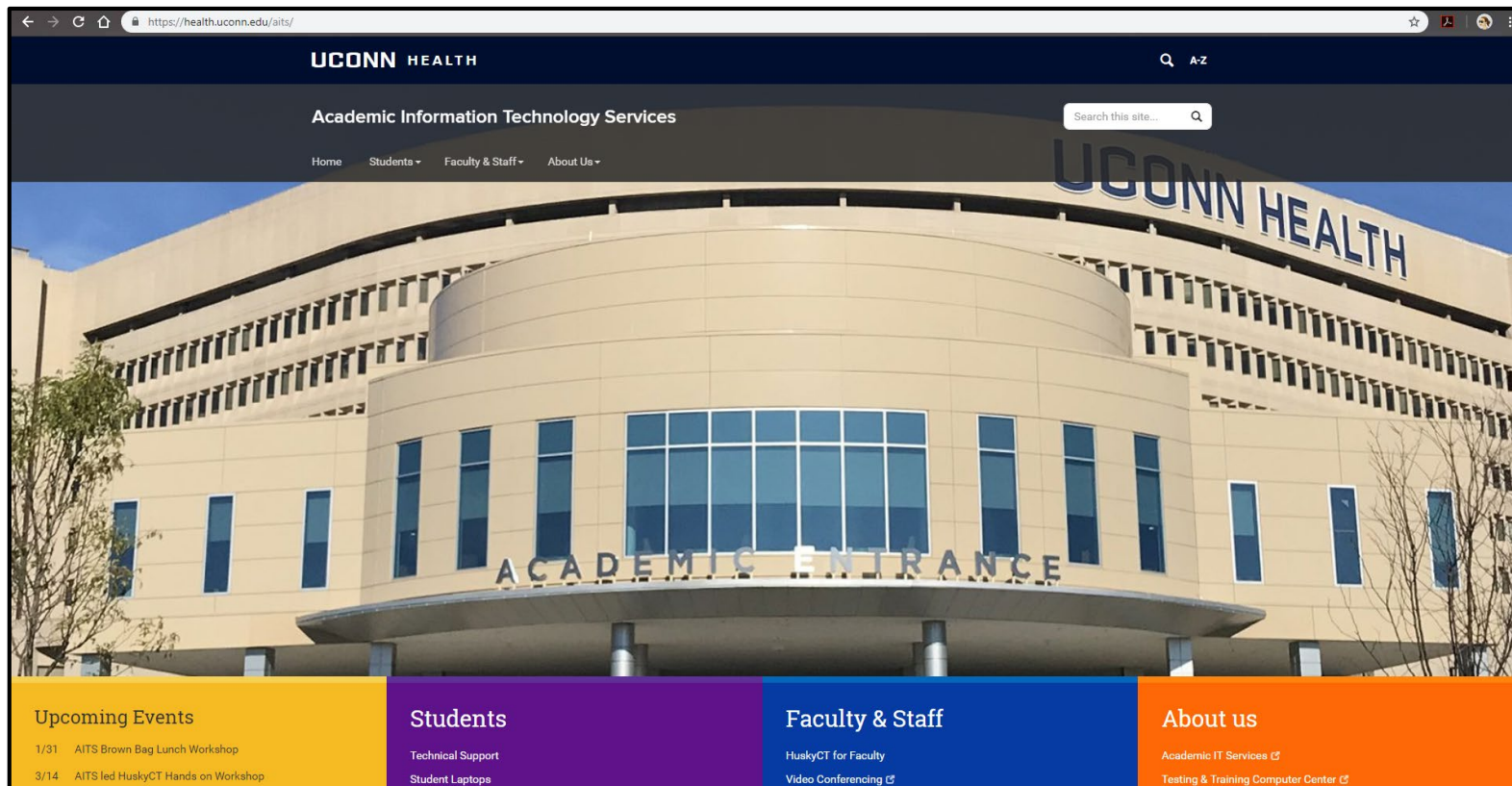


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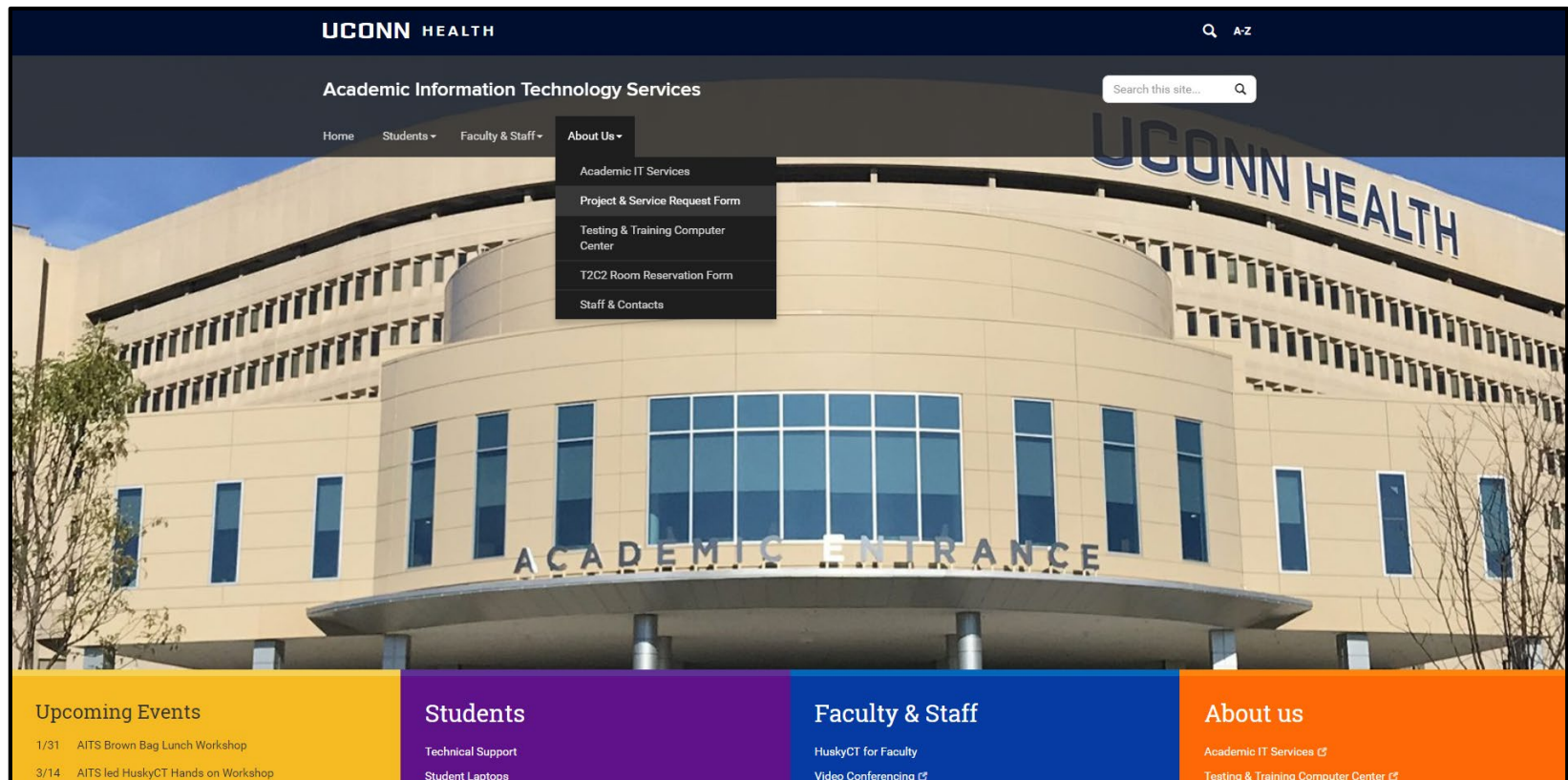
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HOW TO SUBMIT A PROJECT REQUEST FORM TO AITS

STEP 1: GO TO [HEALTH.UCONN.EDU/AITS](https://health.uconn.edu/aits)



STEP 2: GO TO THE DROP-DOWN MENU NEXT TO *ABOUT US*, AND CLICK ON *PROJECT & SERVICE REQUEST FORM*



STEP 3: COMPLETE THE PROJECT & SERVICE REQUEST FORM AND CLICK SUBMIT

The screenshot shows the UConn Health Academic Information Technology Services website. The header includes the UConn Health logo, a search bar, and navigation links for Home, Students, Faculty & Staff, and About Us. The main content area is titled "Project & Service Request Form" and includes a sub-header "Please complete this form to request AITS services." The form fields are: First and Last Name *, NetID *, Means of Contact (Email/Phone/Cell) *, UConn Health Affiliation * (with a dropdown menu showing "SDM Faculty/Staff"), Course Name and ID (if applicable), and How can we help you? (Services Requested) *. The "How can we help you?" section has four checkboxes: Instructional Design Consultation (Course Design, E-Learning Objects, etc), Educational Technology Consultation (Digital/Video Content, etc), Online Education Opportunities (HuskyCT Workshops, Trainings, etc), and Other (list below and include any other co-author/staff). Below these is a "Details of Request (please be as specific as possible)" section with a large text area. A blue "SUBMIT" button is at the bottom left. On the right side, there is a sidebar with "Academic IT Services" and a list of links: Project & Service Request Form, Testing & Training Computer Center, Room Reservation Form, and Staff & Contacts.

UConn HEALTH

Academic Information Technology Services

Search this site...

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Project & Service Request Form

Please complete this form to request AITS services.

First and Last Name *

NetID *

Means of Contact (Email/Phone/Cell) *

UConn Health Affiliation *

SDM Faculty/Staff

Course Name and ID (if applicable)

How can we help you? (Services Requested) *

- ☐ Instructional Design Consultation (Course Design, E-Learning Objects, etc)
- ☐ Educational Technology Consultation (Digital/Video Content, etc)
- ☐ Online Education Opportunities (HuskyCT Workshops, Trainings, etc)
- ☐ Other (list below and include any other co-author/staff)

Details of Request (please be as specific as possible)

SUBMIT

Academic IT Services

- Project & Service Request Form
- Testing & Training Computer Center
- Room Reservation Form
- Staff & Contacts

AITS Contact Information

860-679-8870 (AITS Main Phone)

aits@uchc.edu (Email)