

IREX Iraq University Leaders in Integrative STEM Strategies Agenda - August 5-9, 2019 Workshops (Falls Church, Virginia)

<http://bit.ly/IREX-August>

<http://bit.ly/Tahseen1>

Saturday, August 3 - Travel to the Washington, D.C. area from Baghdad.

Sunday, August 4 - Arrival in the Washington, D.C. area (Dulles International Airport).

Hotel Information: <http://bit.ly/33cVRyq>

[The Westin Tysons Corner \(Marriott\)](#)

Address: 7801 Leesburg Pike, Falls Church, Virginia 22043 USA

Phone Number: 1-800-937-8461

Workshop Goals

University leaders and their faculty will be able to demonstrate competencies in the following areas:

- 1. Understand and explain principles of curriculum and instructional design;**
- 2. Know, understand, and apply planning, assessment, and instructional strategies that result in student success;**
- 3. Plan, implement, and refine training for faculty to build collective professional capacity within their university departments;**
- 4. Integrate technology in curriculum and instruction to enhance understanding for students; and**
- 5. Develop course outlines, assessments, and learning activities that can be used immediately within their courses.**

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Monday Agenda (August 5):

Directions to Thinkabit Lab (7054 Haycock Rd., Falls Church, VA):

Map - <https://www.google.com/maps/place/VT-Thinkabit/@38.896524,-77.1912817,17z>

West Falls Church Metro Station

<http://bit.ly/Karim-Agenda>

- 8:30am Participants begin arriving
- 9am Workshops overview, Introductions, Review of Agenda
- 10am **Overview of Eight Standards of Higher Education Curriculum Rubric**
Slides - [LINK](#) Handout - [LINK](#)
- 11am **Host Facilitator's Presentation of Example Course Materials**
Course Outline
- Course Goals and Learning Objectives - [LINK](#)
- Priority Topics (Major Topics)**
- Assessment Plan - [LINK](#)**
- Pacing Guides / Anticipation Guides**
- By Assignment Due Date - [LINK](#)
 - By Topic (Module) - [LINK](#)
- Vertical Team Review**
- Faculty of Other Courses
 - Course Reorientation Matrix - [LINK](#)
- 12 noon - Lunch
- 1:30pm **Review of Curriculum Development Processes**
Backwards Design (Desired Outcome, Assessment, Learning Activities)
Unit Plan Templates - [LINK](#)
Lesson Templates - [LINK](#)
Professional Development Templates
- 3pm Engineering mini-seminar with Dr. Ali Haghghat
- 4pm Work Time - Preparation for Day 2
- Revised Course Outline and Pacing Guide
 - Revised Assessment Plan
 - Revised sample Unit Plan
 - Proposed Faculty Vertical Teams
 - Second Course Example
- 6pm Dinner - as a group or individually

Preparation for Day 2

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Tuesday Agenda (August 6):

- 8:30am Participants begin arriving
- 9am Review of Agenda, Questions and Discussion
- 9:30am The Curriculum Outline Process (Activity)
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- 10:30am **Virginia Tech Language and Culture Institute - [Dr. Andrea Todd](#)**
- 12 noon - Lunch
- 1:30pm **Learning Theories Summary** - Handout - [LINK](#) Slides - [LINK](#)
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- 2:30pm **Next Steps - Interdisciplinary Curriculum Mapping**
(sharing syllabi, interdisciplinary themes, interdisciplinary planning, technology tools)
- 3pm Resource Library and Makerspace tour and discussions
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- 6pm Dinner - Group Dinner in Washington D.C. - **Carmine's Italian Restaurant**
425 7th Street NW, Washington, DC (202) 737-7770
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Wednesday Agenda (August 7):

8:30am Participants begin arriving

9am Review of Agenda, Questions and Discussion

9:15am **Assessment** - [Slides](#), [Handout](#)

9:45 pm **Work on Participants' Revised Products**

- [Course Outline](#) - Syllabus Information and Pacing Guide, Assessment Plan
- Vertical Teams
- Start an Outline of Second Course

11:00am **Overview of Instructional Best Practices**

(Engagement, strategies for small or large classrooms, use of formative assessment, interactive technology, 5E and 7E models for science instruction)

Teaching Styles - [Slides](#), [Handout](#)

Project-Based Learning (Larmer and Mergendoller, Duch)

11:30am **Creating Authentic Audiences**

Internal audiences, external audiences, Review and Feedback

11:30am Work time - New Products

- Examples of relevant course projects and products
- Draft Course 2 Unit Plan
- Draft Course 3 Outline and Pacing Guide

12 noon - Lunch - on your own

1:30pm **Preparing for Fall 2019 Faculty Professional Development and Work time**

(Developing draft outline, proposed schedule, proposed attendees)

3pm Engineering and Materials Science mini-seminar with Dr. Roop Mahajan

4pm Work time continued

6pm Dinner - as a group or individually

Preparation for Day 4 - Continue to revise course materials.

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Thursday Agenda (August 8):

- 8:30am Participants begin arriving
- 9am Review of Agenda, Questions and Discussion, and informal meeting
- 9:15am **Project-Based Learning, Project-based Assessments**
(Authentic assessment, authentic audiences, use of presentations, evaluating group projects and individual contributions within groups) **Slides - [LINK](#) Handout - [LINK](#)**
- 10am Zoom - Call with Lindsay
- 10:30 **Technologies for Engaging and Supporting Students**
(Interactive Notebooks, video presentations, online poster sessions)
- 12 noon - Lunch
- 1:30pm **Distance Learning - Presentation/Tour by [TLOS](#)**
- 3pm **Teaching Entrepreneurship**
Promoting Creativity, Innovation, and Entrepreneurship
- 3:30pm Work time
- Draft Course 2 Syllabus
 - Draft Faculty Professional Development Plan
- 5pm **Presentations - Priorities for Friday**
Participants describe the status of their work, remaining work, obstacles, resources needs.
- 6pm Dinner - as a group or individually

Preparation for day 5

- Revise materials further.
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Friday Agenda (August 9):

[For physics standards click here](#)

- 8:30am Participants begin arriving
- 9am **Review of Participants' Collection of Plans and Products**
- 930am Final Work session
- 10:30am Education Leadership - Dr. Bill Glenn and Ms. Susan Li
- 12 noon - Lunch
- 1:30pm Finalize Plans and Products - [LINK](#)
- 3pm Developing an Evaluation ([survey LINK](#)) and Monitoring Plan - [LINK](#)
- 3:45pm Overcoming resistance to change among educators - [LINKS](#)
- 4pm Closing Ceremony
- 6pm Dinner - as a group or individually

<http://bit.ly/RabeeFEM>

<http://bit.ly/RingTheory>

Saturday (August 10): Free Day

Suggest touring in Washington, D.C.

Sunday Departure (August 11): Departing flight at **5:25 PM**

Please plan to arrive at the **Dulles International Airport at 3:00PM** in order to provide enough time for check in.

You will want to take a taxi from the hotel no later than **2:30 PM** in order to arrive on time.