

CEES 5020 Highway Engineering

Course Overview

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(Program: Civil Engineering)



Notes & Storyboard Resources



OFFICE OF DIGITAL LEARNING
The UNIVERSITY of OKLAHOMA

Goals, Format and Challenges

Goal/objective

- Explain course topics, structure, and assessments.

Video format

- Instructor recorded video

Challenges

- Includes some Canvas screen recordings
- Includes option to utilize footage from instructor's drive (may not be easily accessible)

Storyboard Symbols

Where necessary, symbols may be used to separate production notes. The following symbols may be used:

- Headshot: ⊗
- Instructor timeline: ≡
- Graphic: □
- B-roll footage: ∞
- Sidebar with images: ▣
- Screen recording: ⊙
- Image: ☒
- Notes: »
- Suggestions/tips: ∴

Storyboard Links

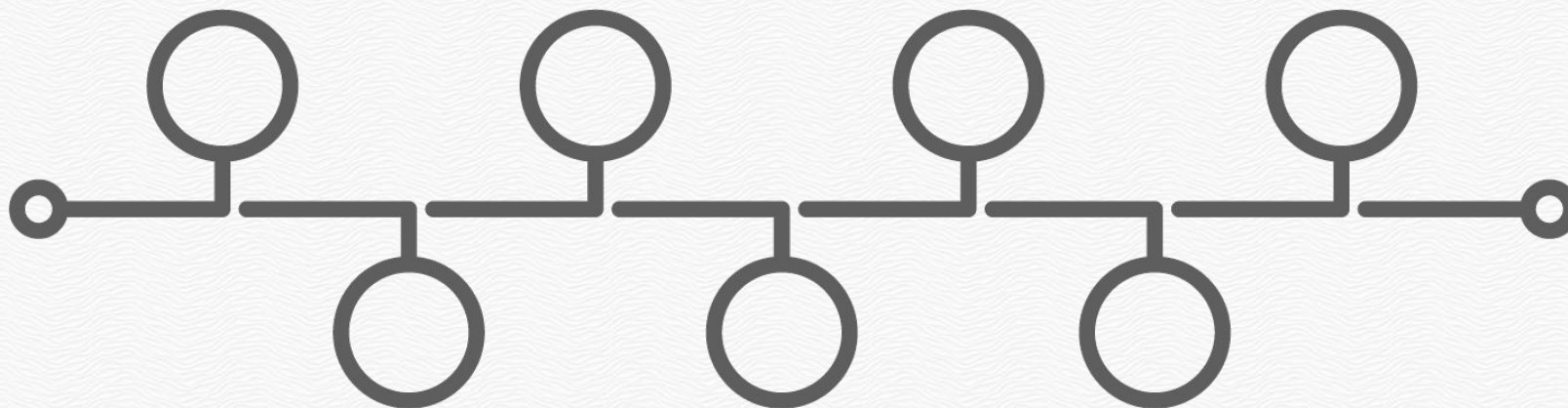
- Asset **folder**
- Intro **slide**
- Outro **slide**

Storyboard

⊗ Headshot

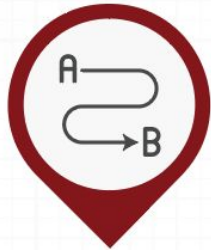


≡ Instructor timeline



Course topics graphic

Course Topics

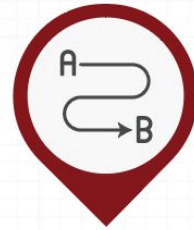


Design route
alignments



Course topics graphic

Course Topics

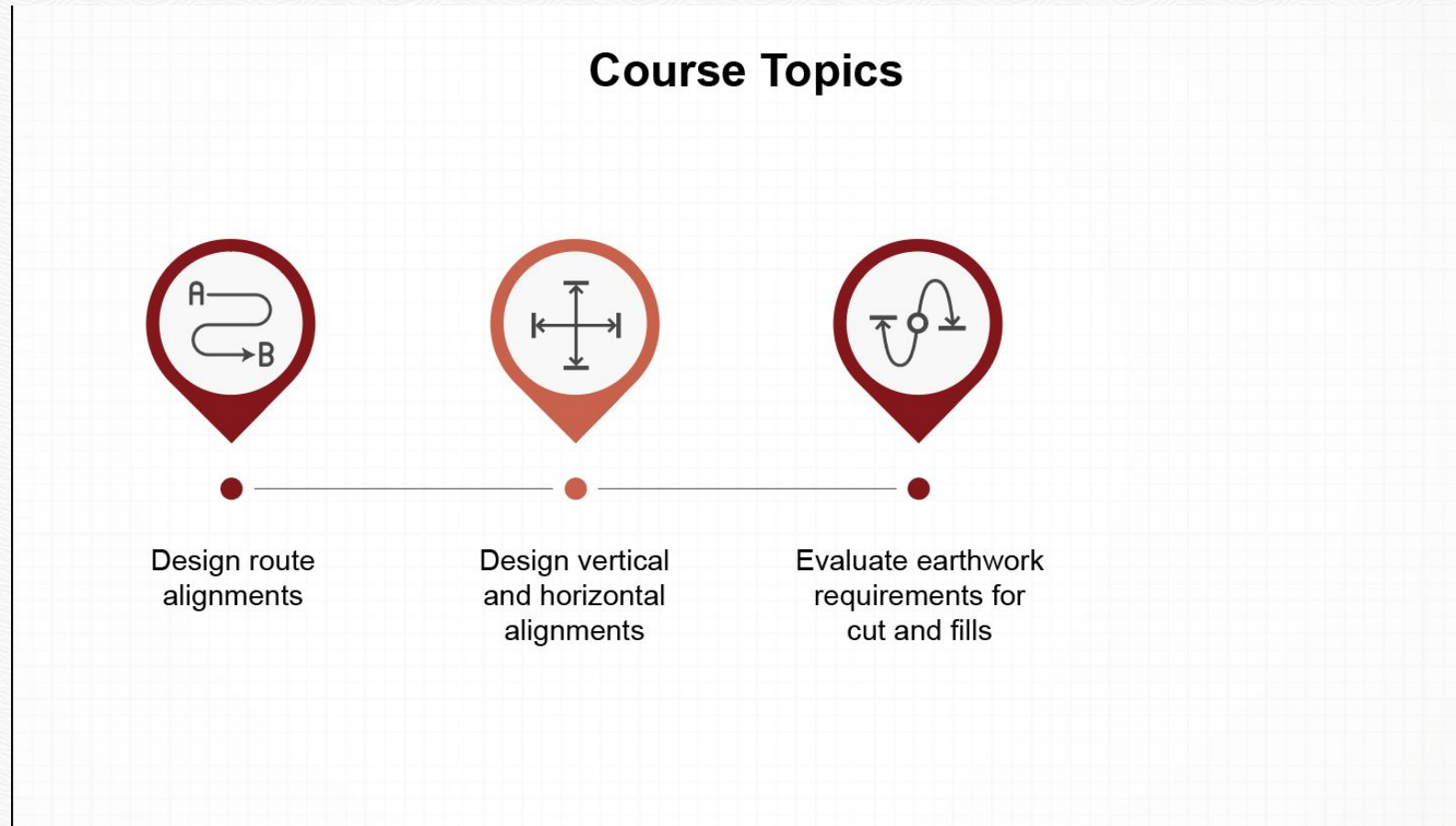


Design route
alignments

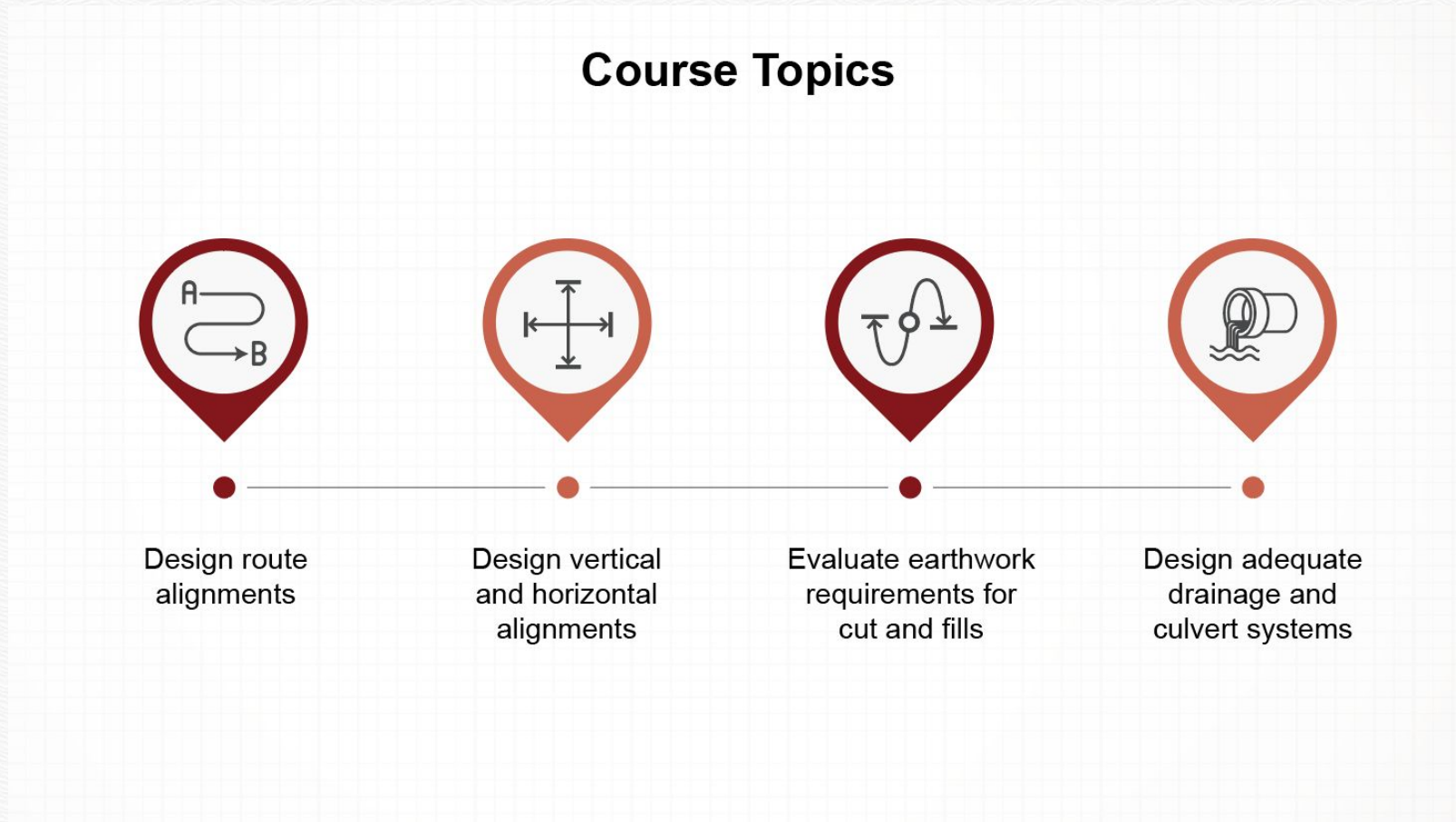


Design vertical
and horizontal
alignments

Course topics graphic



Course topics graphic



∞ AutoCAD Civil 3D

Notes: In the promo script, the instructor said that he had some footage of this in his AutoCAD drive on MyMedia

However, if we cannot access that, I'm attaching some screenshots I found.

☑ Sidebar and images (Topics)

Course Topics

- Attributes of highway safety



☑ Sidebar and images



Course Topics

- Attributes of highway safety
- Safety effectiveness of highway design

The image is a composite. On the left is a dark grey sidebar with the text 'Course Topics' in white, underlined. Below it are two bullet points: 'Attributes of highway safety' and 'Safety effectiveness of highway design'. On the right is a photograph of a winding asphalt road with yellow double lines. A large yellow chevron sign with a black arrow pointing right is in the foreground. In the background, several smaller yellow chevron signs are visible along the curve of the road, set against a backdrop of dry, hilly terrain under a clear blue sky.

☑ Sidebar and images

Course Topics

- Attributes of highway safety
- Safety effectiveness of highway design
- Traffic flow and travel demand



☑ Sidebar and images

Course Topics

- Attributes of highway safety
- Safety effectiveness of highway design
- Traffic flow and travel demand
- Phases of highway location process



☑ Sidebar and images

Course Topics

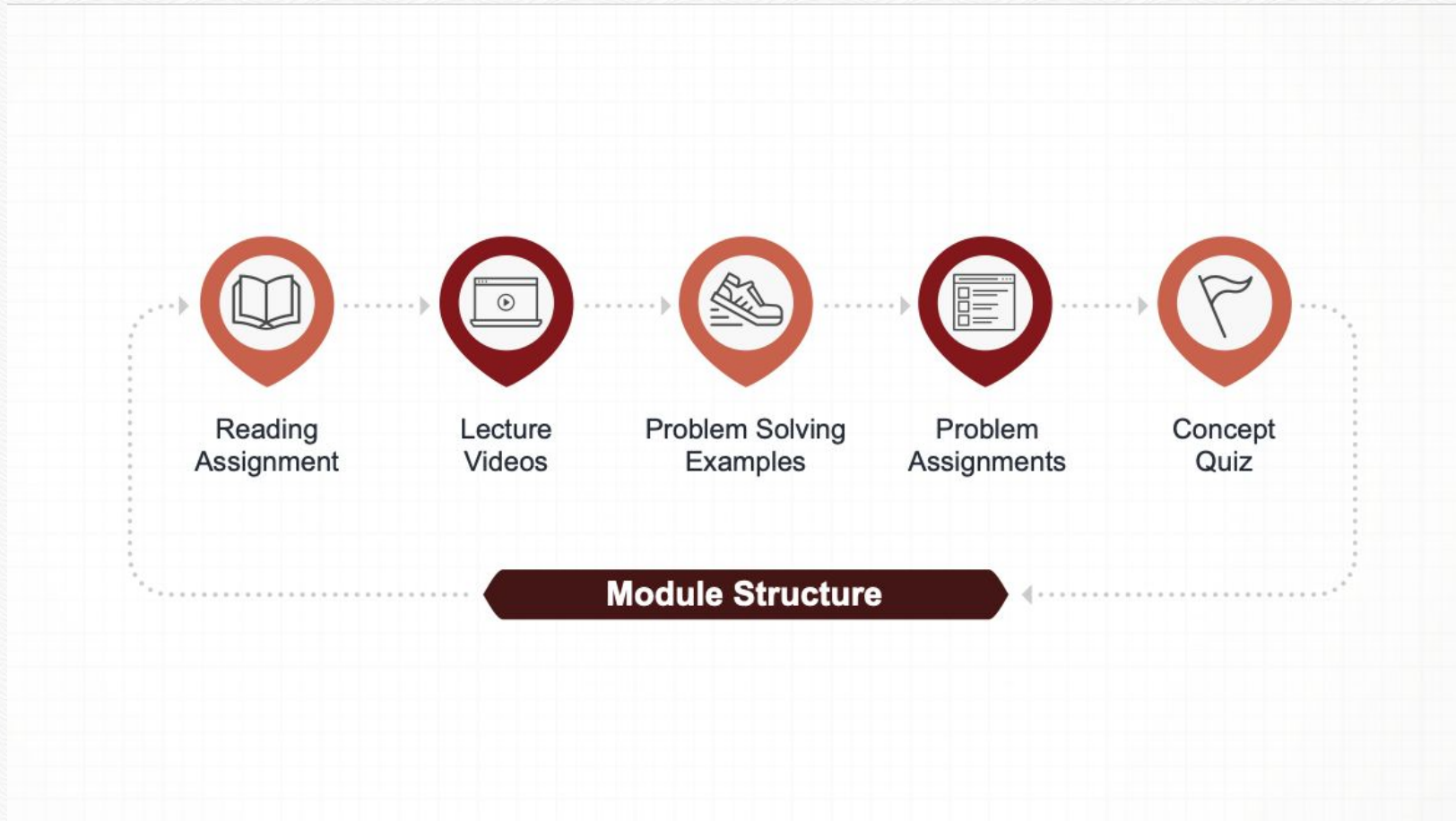
- Attributes of highway safety
- Safety effectiveness of highway design
- Traffic flow and travel demand
- Phases of highway location process
- Surface and subsurface drainage facilities



⊗ Headshot



Module structure graphic



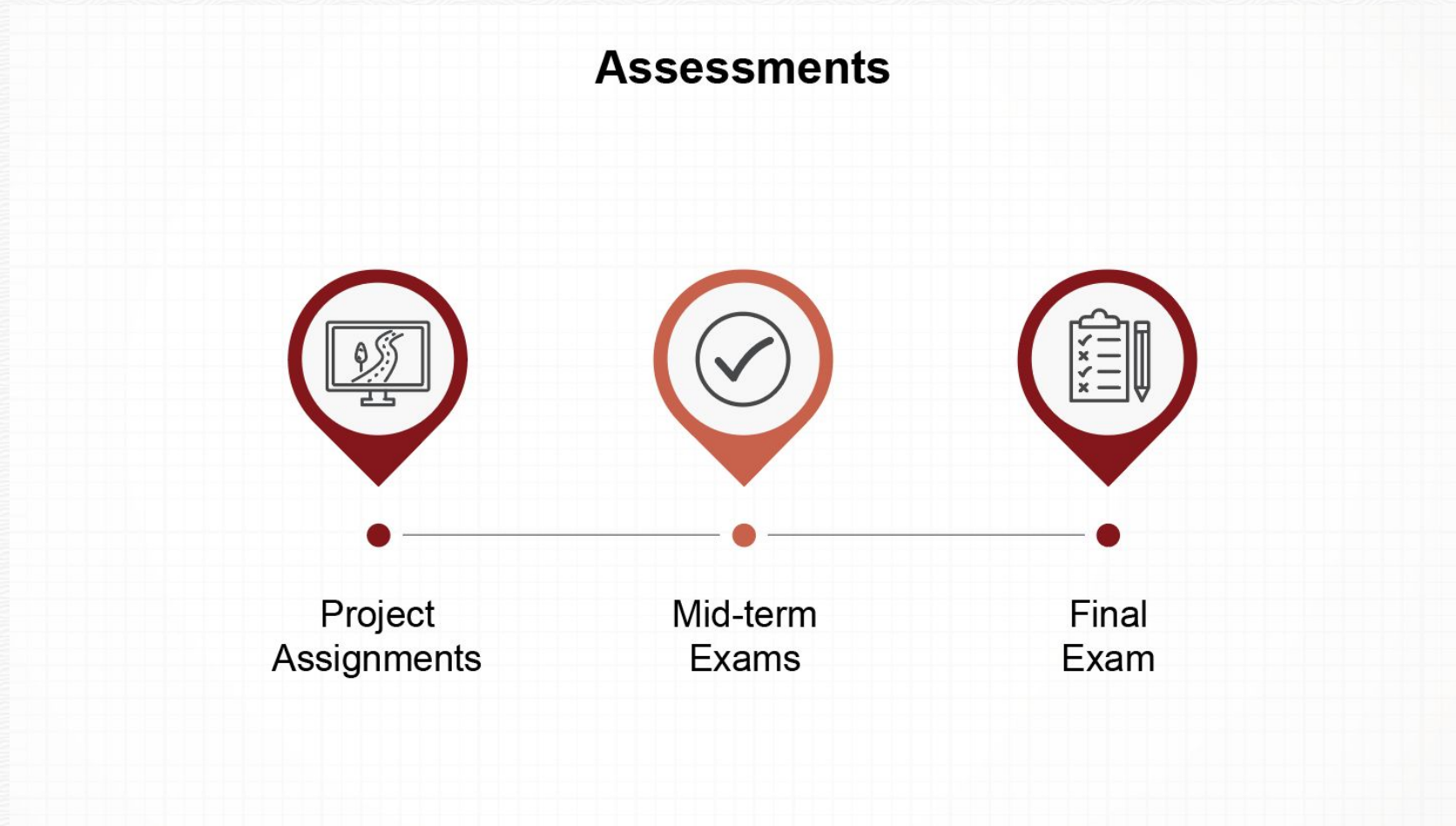
∞ Generic b-roll of Live Sessions

∞ Canvas screen recording

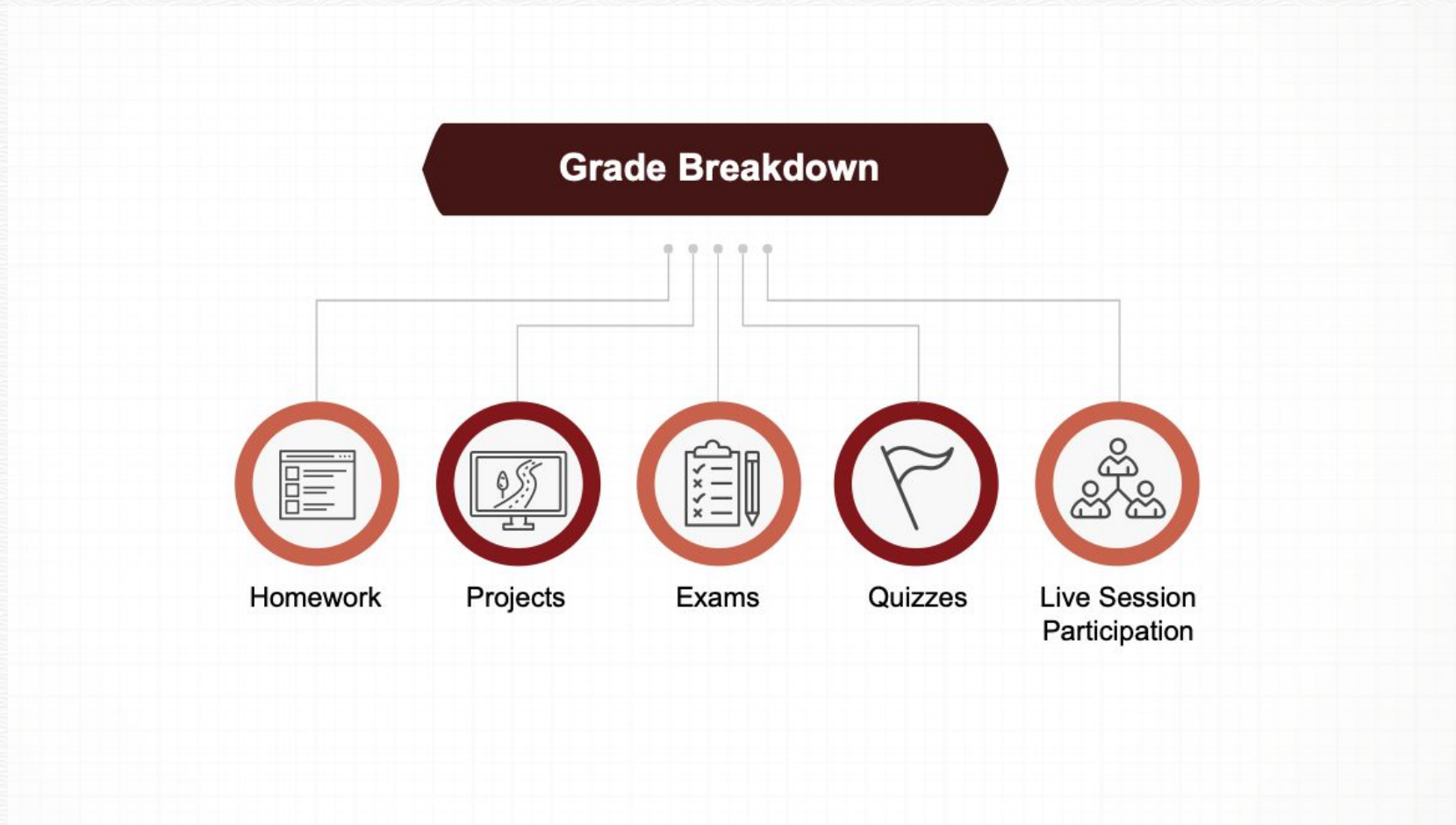
Needs to be trimmed

I have some alternative versions but I think this is the best one we have so far.

Other assessments graphic



Grade breakdown graphic



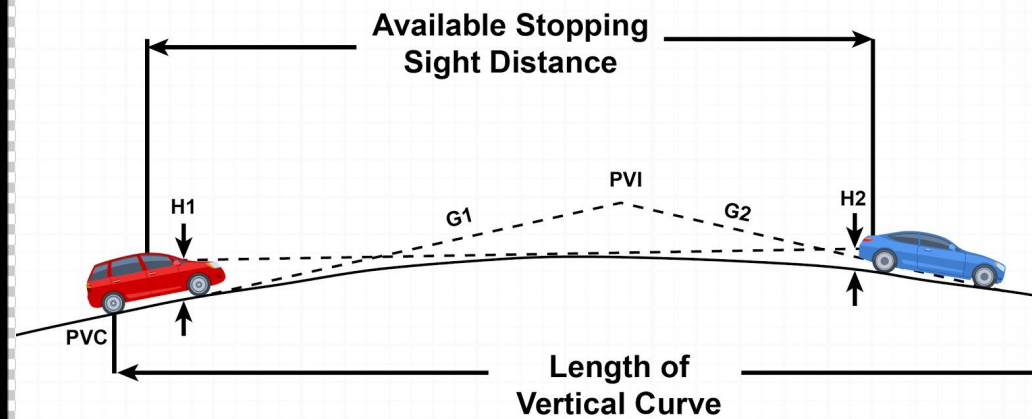
∞ Canvas screen recording

If you feel it isn't repetitive, the end of the screen recording attached demonstrates the generic make-up assignment

☑ Sidebar and images (Obj)

Course Objectives

- Know horizontal and vertical alignment



☑ Sidebar and images

Course Objectives

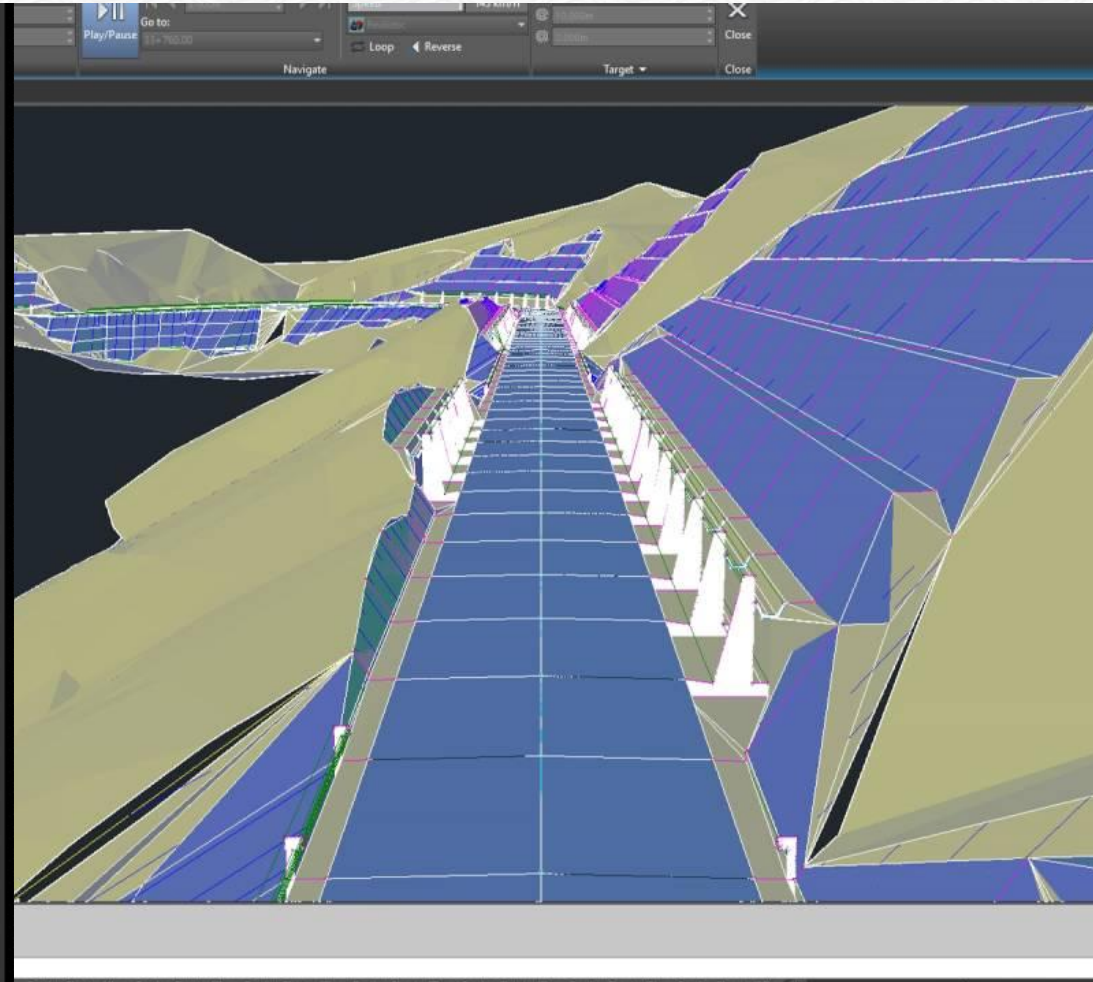
- Know horizontal and vertical alignment
- Know steps of corridor development



☑ Sidebar and images

Course Objectives

- Know horizontal and vertical alignment
- Know steps of corridor development
- Develop a corridor in AutoCAD Civil 3D



☑ Sidebar and images

Course Objectives

- Know horizontal and vertical alignment
- Know steps of corridor development
- Develop a corridor in AutoCAD Civil 3D
- Minimize earthwork cost



☑ Sidebar and images

Course Objectives

- Know horizontal and vertical alignment
- Know steps of corridor development
- Develop a corridor in AutoCAD Civil 3D
- Minimize earthwork cost
- Know drainage and culvert design



⊗ Headshot

