

## Iowa Level II Geomorphic Design Course Outline

### Day 1 – Monday

8:00 – 8:30	Module 1 – Welcome & Course Overview
8:30 – 9:15	Module 2 – Phases of Geomorphic Channel Design
9:15 - 10:00	Module 3 – Concept of Multi-Staged Channels
10:00 – 10:15	Break
10:15 – 10:45	Module 4 – Alluvial Channel Design Versus Threshold Channel Design
10:45 – 11:15	Module 5 – Reference Reach Criteria
11:15 – 12:00	Module 6 – Role of Dimensionless Ratios
12:00 – 12:30	Lunch
12:30 – 1:00	Module 7 – Designing for Ecology
1:00 – 1:30	Module 8 – Understanding Design Discharge
1:30 – 2:15	Module 9 – Shear Stress in Streams
2:15 – 2:30	Break
2:30 – 3:30	Module 10 – Understanding Sediment Supply (BANCS) & Sediment Transport
3:30 – 4:30	Module 11 – Sediment Transport Competency

### Day 2 – Tuesday

8:00 – 9:15	Module 12 – Sediment Transport Capacity
9:15 – 10:00	Module 13 – Development of Conceptual Designs
10:00 – 10:15	Break
10:15 – 11:00	Module 14 – Overview of Project Site
11:00 – 11:30	Teams Meet with Team Leaders to Discuss Field Work
11:30 – 12:00	Lunch
12:00 – 4:30	Field Work

### Day 3 – Wednesday

8:00 – 10:30	Data Work Up/Develop Concept Designs
10:30 – 11:30	Module 15 – Use of Practices/Techniques in Stream Design
11:30 – 12:00	Lunch
12:00 – 2:30	Teams Finalize Designs

2:30 – 2:45	Break
2:45 – 3:15	Team 1 Presents Overall BANCS Model Results
3:15 – 3:45	Team 2 Presents Sediment Calcs
3:45 – 4:15	Team 3 Present River Restoration Toolbox Results
4:15 – 4:30	Teams Finalize Designs
Day 4 - Thursday	
8:00 – 11:00	Teams Finalize Designs
11:00 – 12:00	Team 1 Presents Design
12:00 – 12:30	Lunch
12:30 – 1:30	Team 2 Presents Design
1:30 – 2:30	Team 3 Presents Design
2:30 – 3:30	Module 16 – Overview of Recommended Design & Course Wrap-Up