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