TCOM 611
MPLS
George Mason University
Spring 2019

Class Meeting Time and Location:
Thursday 7:20 – 10:00 P.M.
Location: Blackboard Collaborate
Instructor: Graham Sheppard
Email: gsheppar@gmu.edu
Phone: 571-246-7426
Office Hours: By appointment

Class Description:
The objective of this class is to provide students with an in-depth understanding of MPLS. After completing this class students should understand the purpose of MPLS and the reasons for its deployment in both Service Provider and Enterprise networks. Topics to be covered are LDP, RSVP, MPLS-TE, Layer 2/3 VPNs and Multicast VPNs.

Course Perquisites:
TCOM 515, TCOM 609/610 or other Routing Protocol experience is highly recommended for this course.

Course Text:
MPLS-Enabled Applications
ISBN-10: 0470665459
ISBN-13: 978-0470665459

Course Grading:
Midterm 35%
Paper 30%
Final Exam 35%
Midterm and Final are based on lectures and class discussions

Grading Scale
97–100%	A+
93– 96%	A
90 – 92%	A-
87 – 89%	B+
83– 86%	B
80 – 82%	B-
70– 79%	C

Course Project:
To be discussed the first week of class

Lectures
Lecture PowerPoint slides and lab procedures will be posted online. Please login to
https://gmu.blackboard.com to access the class folders.

Course Schedule:
The schedule bellow is tentative.

Class #	Date	Topics	References
1	24-Jan	MPLS Introduction and LDP	RFC 3032
2	31-Jan	No Class Project	
3	7-Feb	RSVP	RFC 3036
4	16-Feb	RSVP and Fast Reroute	RFC 2209
5	21-Feb	DiffServ-TE	
6	28-Feb	TBD and Review	
7	7-March	Midterm	
8	14-March	Spring Break	
9	21-March	Layer 3 VPNs	
10	28-March	Advanced Layer 3 VPNs	RFC 2547
11	4-April	Multicast VPNs	
12	11-April	Layer 2 VPNs	RFC 4664
13	18-April	VPLS	RFC 4664
14	25-April	No Class Project	
15	2-May	Next Gen VPNs	
16	9-May	Final	

GMU Links:
catalog.gmu.edu
http://universitypolicy.gmu.edu/