FLORIDA ATLANTIC UNIVERSITY		ograms	UGPC Approval UFS Approval SCNS Submittal Confirmed Banner Catalog	
Prefix and Number       CNT 6528       Vehicular Networks         Syllabus must be attached for ANY changes to current course details. See Guidelines. Please consult and list departments that may be affected by the changes; attach documentation.				
Change title to: Change prefix	<b>T</b> = -	Change description to	::	
From: Change course r From: Change credits*	То:		CEECS students, and or students from other major.	
From: Change grading From:	То:	Change registration co	ontrols to:	
Academic Service Learning (ASL) ** Add Remove * Review Provost Memorandum ** Academic Service Learning statement must be indicated in syllabus and approval attached to this form.		Please list existing and new p and include minimum passin	pre/corequisites, specify AND or OR 19 grade.	
Effective Term/ for Changes: Faculty Contact/E	Spring 2021	Terminate course? Eff for Termination:	fective Term/Year	
Approved by Department Chair	Hanqi Zhuang Digita Hanqi Zhuang Digita Erancisco Presuel-Moreno	ally signed by Hanqi Zhuang 2020.10.21 15:45:03 -04'00'	Date	
College Curriculum Chair College Dean UGPC Chair UGC Chair			10/25/2020	
Graduate College Dean				

Email this form and syllabus to UGPC@fau.edu 10 days before the UGPC meeting.

# Department of Computer & Electrical Engineering and Computer Science Florida Atlantic University Course Syllabus

1. Course title/number, number of credit hours					
Vehicular Networks / CNT 652	8	3 credit hours			
2. Course prerequisites, corequisites, and where the course fits in the program of study					
Prerequisites: Graduate standing for CEECS students, and instructor's approval for students from other major.					
3. Course logistics					
Term:					
Class Location & Time:	tion				
4. Instructor contact informa	tion				
Instructor's name					
Office address					
Office Hours					
Contact telephone number					
Email address					
5. TA contact information					
TA's name					
Office address					
Office Hours					
Contact telephone number					
Email address					
6. Course description					
Studies vehicular ad hoc networks routing and MAC protocols, broadcast protocols, applications and performance modeling.					
7. Course objectives/student learning outcomes/program outcomes					
Course objectives	To develop an understanding of the l and their communications protocols challenges encountered in the deplo	and to examine the technical			
Student learning outcomes &	Not applicable				
relationship to ABET 1-7					
outcomes					
8. Course evaluation method					
Test1 30%					
Test2 30%					
-	sentation (15%) plus paper (25%))				
9. Course grading scale					

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Grading Scale:

90 and above: "A", 87-89: "A-", 83-86: "B+", 80-82: "B", 77-79: "B-", 73-76: "C+", 70-72: "C", 67-69: "C-", 63-66: "D+", 60-62: "D", 51-59: "D-", 50 and below: "F."

#### 10. Policy on makeup tests, late work, and incompletes

*Makeup tests* are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam. Makeup exam should be administered and proctored by department personnel unless there are other pre-approved arrangements

*Late work* is not acceptable.

A grade of incomplete will be assigned only in the case of solid evidence of medical or otherwise serious emergency situation.

# 11. Special course requirements

None

# 12. Classroom etiquette policy

University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions.

# 13. Attendance policy statement

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance.

Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

### 14. Disability policy statement

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at <u>www.fau.edu/sas/</u>.

15. Counseling and Psychological Services (CAPS) Center

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Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <a href="http://www.fau.edu/counseling/">http://www.fau.edu/counseling/</a>

## 16. Code of Academic Integrity policy statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001. If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation.

## 17. Required texts/reading

No text is required and the following can be used as reference books:

- 1. Vehicular Networking, Christoph Sommer and Falko Dressler, Cambridge University Press 2015, ISBN: 978-1-107-04671-9
- 2. Vehicular Networks from Theory to Practice, Olariu, Stephan (Editor) and Weigle, Michele C. (Editor), Chapman & Hall/CRC Press 2008, ISBN: 1420085883

### 18. Supplementary/recommended readings

Research articles will be posted on Canvas under course Content.

10 Course topical outline	including dates for exams/guiz	zes, papers, completion of reading
19. Course topical ootime	, inclouing dates for exams/quiz	zes, papers, completion of reading

Tentative Lecture Topics	Approximate # of 1.5 hr. Lectures
1. Introduction	2
2. WAVE Standard	3
3. Vehicle Localization	1
4. Routing protocols	3
5. Broadcast protocols	3
6 MAC protocols	2
7. Autonomous Vehicles	1
8. UAVs/Drones	1
9. Big vehicular data analytic	S 1
10.Cooperative Caching	2
11. Privacy and security issue	is 3
12. Performance modeling	3
13. Applications	3
Test1:	
Test2:	
Project paper:	
<u> </u>	