Wireless Setup Instructions for Windows 7

- 1. Make sure that your wireless feature is turned on. (You may need to flip a switch or press a button on your laptop.) On most laptops you should see a light that indicates that your wireless is turned on or off.
- 2. Click the Start button to get the screen below. (Note: Your color scheme may be different)



3. Click **Control Panel** on the right half of the screen to get the screen below. (The screen below shows it in Category view. You can change to this by selecting "Category" in the upper right portion of the screen. It will say "View By: ". Change it to Category.)



4. On the left column, choose **Network and Internet** to get the screen below.



5. Choose Network and Sharing Center to get the screen below.



6. On the left column, choose Manage wireless networks to get the screen below. (Your computer may already have some wireless networks setup so your screen may be much busier than the one pictured below. The order of these entries determines what will be connected first, second, etc. Make sure you order them in the way you want them to be!)



7. On the menu bar, choose **Add** to create a new wireless network. You will see the screen below.



8. Choose **Manually create a network profile** to get the screen below. (It will not be filled out yet!)

Enter information	for the wireless network you want to add
Network name:	CU-Students
Security type:	WPA2-Enterprise
Encryption type:	AES 🔹
Security Key:	Hide characters
V Start this connec	ction automatically
🔲 Connect even if	the network is not broadcasting
Warning: If you	select this option, your computer's privacy might be at risk.

 Type the following into the textbox named Network name: CU-Students (It must be typed exactly as shown paying close attention to capitalization!) Choose WPA2-Enterprise for the Security Type.

Choose **AES** for Encryption type.

Press the **Next** button to get the screen below.



10. At this point, your wireless is setup. However, we still have to change some of the default settings for the wireless to work correctly.

Connection Security	
Name:	CU-Students
SSID:	CU-Students
Network type:	Access point
Network availability	: All users
Connect automa	tically when this network is in range
Connect to a mo	re preferred network if available
Connect even if	the network is not broadcasting its name (SSID)
Enable Intel con	nection settings
Configure	

Choose **Change connection settings** to get the screen below.

11. If not already checked, be sure the first two items are checked. These would be **Connect automatically when the network is in range** and **Connect to a more preferred network if available**. Click the **Security** tab to see the screen below.

Connection Security		
Security type:	WPA2-Enterprise	•
Encryption type:	AES	•
Choose a network au Microsoft: Protected Remember my cre time I'm logged on	thentication method: EAP (PEAP) dentials for this connection each	
Advanced settings		

12. Choose **Microsoft Protected EAP (PEAP)** under "choose a network authentication" method.

Choose the **Settings** button to configure the options for PEAP properly. You should get the screen below.

Vhen conne	cting:					
🔲 Validati	e server certif	ficate				
Conne	ct to these se	ervers:				
Turrete d D						
	oot Certificat	ion Authori	ties;			
	a Certificate A	uthority	the states			-
	3 PUDIIC Prima	ary Certifica		rity		Ξ
Entru	stinet Secure	Server Ce	runcauon A Hooritu	uthority		
Cloba	ISign Doot CA	uncate Au	thority			
Gioba	isign Root CA					
G0 D2						
	When Truct Clo	Lertification	Authority			
	CyberTrust Glo	bal Root			l l	+
GTE C GTE C On not certific	cyberTrust Glo prompt user	to authoriz	e new serv	ers or trus	ted	•
Do not	prompt user ation authorit	to authoriz	e new serv	ers or trus	ted	+
GTE C	cyberTrust Glo prompt user ation authorit	to authorizies.	e new serv	ers or trus	ted	•
GTE C GTE C On of Certific elect Auther Gecured pa	cyberTrust Glo cyberTrust Glo cyberT	to authoriz hod:	e new serv	ers or trus	ted	ure
GTE C GTE C Gecured pa	cyberTrust Glo prompt user ation authorit entication Mett ssword (EAP-1	to authoriz hod:	e new serv	ers or trus	ted	Jure
GTE (Construction) GTE (cyberTrust Glo prompt user ation authorit entication Mett ssword (EAP-1 ast Reconnec	to authoriz hod: MSCHAP v:	e new serv	ers or trus	ted	ure
GTE C	cyberTrust Glo prompt user ation authorit entication Mett ssword (EAP-I ast Reconnec Vetwork Acce et if cenver de	to authorizides.	e new serv 2)	ers or trus	ted Config	ure
GTE C On noi certific elect Auther certific Enable F Enable F Disconne Disconne Disconne	cyberTrust Glo prompt user ation authorit entication Mett ssword (EAP-I ast Reconnec Network Acces ct if server do	hod: MSCHAP v: to authoriz ies. MSCHAP v: t ss Protection pees not pre-	e new serv 2) on sent crypto	ers or trus	ted Config	ure
GTE C On noi certific elect Authe elect Authe certific f Enable F Enable F Disconne Enable I	cyberTrust Glo prompt user ation authorit entication Met ssword (EAP-I ast Reconnec Network Acce ct if server do dentity Privac	to authoriz ies. hod: MSCHAP v2 t ss Protectio pes not pre y	e new serv 2) sent crypto	ers or trus	ted Config	v ure

13. Uncheck Validate server certificate.

Select Secured password (EAP-MSCHAPv2) if not already selected.

Select Enable Fast Reconnect if not already checked.

Select **Configure...** button to get the screen below.

EAP MSCHAPv2 Properties
When connecting:
Automatically use my Windows logon name and password (and domain if any).
OK Cancel

14. Uncheck Automatically use my Windows logon name and password (and domain if any).

If not unchecked, the connection will use the local logon name and password which will not match your Claflin Username and Password.

Click the **OK button twice** to return to the previous screen as shown below.

CU-Students Wireless Ne	etwork Properties		×
Connection Security			
Security type: Encryption type:	WPA2-Enterprise	•	
Choose a network aut	hentication method: EAP (PEAP)	Settings	
time I'm logged on			
Advanced settings			
		ж с	ancel

15. Click the **Advanced settings** button to get the screen below.

dvanced settings	×
802.1X settings 802.11 settings	
Specify authentication mode:	
User authentication	▼ Save credentials
Delete credentials for all users	3
Enable single sign on for this netw	vork
Perform immediately before us	ser logon
Perform immediately after use	r logon
Maximum delay (seconds):	10 *
Allow additional dialogs to be a sign on	displayed during single
This network uses separate vi and user authentication	rtual LANs for machine
	OK Cancel

16. Ensure that the checkbox **Specify authentication mode** is checked. Uncheck Enable single sign on for this network if it is checked.

Choose **User authentication** from the dropdown.

Click the **Save credentials** button to get the screen below.

Caulo gradau	atiala
Save creder	iuais
Saving your cre	edentials allows your computer to connect to the network
when you re no	or logged on (for example, to download updates).
	tsneed

17. Type your network username and password. (Do not type your email address or include "Claflin" as the domain. Your user name is the first portion of your email address before the @ sign.). For example, if your email address is <u>fred@claflin.edu</u> then your username is fred.

Click the **OK** button to close the advanced settings screen. This should return you to the Advanced Setting screen as shown below.

vanced settings	
802.1X settings 802.11 settings	
Specify authentication mode:	
User authentication	Save credentials
Delete credentials for all user	s
Enable single sign on for this net	work
Perform immediately before u	user logon
Perform immediately after us	er logon
Maximum delay (seconds):	10
Allow additional dialogs to be sign on	displayed during single
This network uses separate v and user authentication	virtual LANs for machine
	OK Cance

 Click the **OK button** on the Advanced Security screen to close it and return to the Manage Wireless Networks screen as shown below. (Note: You may have additional items in this list which are not shown below.)



- 19. Click the red button with the white X in the upper right corner of the Manage Wireless Networks window. Close any remaining windows which may be open in a similar fashion.
- 20. By this time, you should be getting a notification asking for additional information to logon to the CU-Students wireless.



21. Clicking on the notification message will bring up the screen to allow you to enter your username and password. You should see the screen below.

Windows Security	,
Network Au Please enter us	uthentication ser credentials
	User name Password
	OK Cancel

22. Assuming you entered your username and password correctly, the wireless indicator should show the strength of the wireless signal as shown in the screen below. (Circled in red) Please note that this is in the lower right corner of the screen.



23. **Your wireless is setup and ready to use**. Whenever the laptop is within range of the CU-Students wireless network, it will automatically attempt to connect. The only time you will have to worry about this connection is when your password changes, then you will be prompted again as shown in step 20 through 22.

Tips and Troubleshooting

- 1. To connect to the wireless network manually or to check which network your wireless is connected to, follow these instructions:
 - a. In the lower right hand corner of the screen, next to the time, you may see the following screenshot. This screenshot shows an "Excellent" strength connection but to which network?



b. To determine which network you are connected to or to see additional wireless networks which may be available to you, simply click on the signal strength indicator which is inside the red circle above. It will bring up the following screen which shows that the CU-Students wireless network is currently connected and the signal strength is excellent.



c. If nothing is connected but you want to connect to CU-Students and you have previously setup the manual connection, then click on the CU-Students line and a Connect (or Disconnect if already connected) button will appear. Simply click on the Connect button and it will attempt to connect to the CU-Students wireless network. The screen will look similar to the one below.



d. You should now be connected to the CU-Students network.

2. If you encounter a problem connecting and you are presented with a dialog box shown below, click on the "Troubleshoot problems" link and let the system attempt to fix the problem. Our experience with this is that it fixes the problem as shown in the second screen below, assuming you have set up everything else correct.

😰 Connect to a Network	×
Windows was unable to connect to CU-Students	
Troubleshoot problems	
Tell me more about Internet connection problems	
C	ancel

Windows Network Diagnostics	atter;	
Troubleshooting has completed		
The troubleshooter made some changes to your system. Tr to do before.	y attempting the task you	u were trying
Problems found		
Problem with wireless adapter or access point	Fixed	۲
 Close the troubleshooter 		
Explore additional options		
View detailed information		
		Close

- 3. How do I change the settings if I need to?
 - a. Follow steps 1 through 6 above to arrive at the "Manage Wireless Networks" screen.
 - b. Locate the CU-Students wireless network setup and right click on it and select "properties" to make changes as necessary. Refer to the appropriate steps above for details.

				1000					x
<u>-</u>	📶 « Networ	k and Internet	 Manage Wireless Net 	works	-	↓ Sear	ch Manage W	ireless Networks	٩
Manage wireless networks that use (Wireless Network Connection) Windows tries to connect to these networks in the order listed below.									
Add Remove Adapter properties Profile types Network and Sharing Center									0
Networks you can view, modify, and reorder (1)									
Lange CU.	-Students	Sec	irity: WPA2-Enterprise	T	/pe: Any suppo	rted		Automatically c	on
	Prope	rties							
	Remov	ve network							
	Renam	ne							
	CLI Studente	Desfile serves	CIII Churdente	De die tronge	A				
	CO-Students	Security type:	WPA2-Enterprise	Mode:	Any supported Automatically o	connect			

4. As always, you may contact the Claflin University Helpdesk by sending an email to <u>helpdesk@claflin.edu</u> or by calling 803-535-5767 (5SOS).