



# range Bytes

Volume 49 No 5

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## NOCCC meetings for Sunday May 4, 2025

### MAIN MEETING

Upgrading from Window 7 to Windows 10 and Windows 10 to Windows 11 and upgrading Windows 11 to Linux Mint (according to our Pres.)

### Special Interest Groups (SIGs) & Main Meeting Schedule

#### 9:00 AM – 10:30 AM

**Beginners Digital Photography** .....*Science 131*

Questions and Answers about Digital Photography

**Linux for Desktop Users**.....*Science 129*

Beginners' Questions about Linux

#### 10:30 AM – 12:00 PM Noon

**3D Printing** .....*Science 127*

Questions and Answers about 3D printing

**Advanced Digital Photography**.....*Science 131*

Questions and Answers about Digital Photography

**Linux Administration** .....*Science 129*

More topics about the Linux operating system

**Mobile Computing**.....*Science 109*

We discuss smart phones, tablets, laptops, operating systems and computer related news. **Waiting for a new leader.**

#### 12:00 PM Noon – 1:00 PM

**3D Printing**..... *Science 127*

Questions and Answers about 3D printing if requested.

**PIG SIG** ..... *Irvine Courtyard*

Bring your lunch. Consume it in the open-air benches in front of the Irvine Hall or join the group that goes to the student cafeteria. Talk about your computer(s) and life experiences.

#### 1:00 – 3:00 PM Main Meeting

The first part of the meeting will be looking at a members Windows 7 desktop computer to see if it is reasonable to even try to update the computer. Does it have decent CPU, enough RAM, a reasonable size and speed of HDD to make the effort worth while.

The second part will deal with upgrading a Windows 10 computer to Windows 11 on a computer that doesn't meet one or both of Microsoft requirements. IE. A TPM 2.0 module and/or a 2017 or later CPU.

**BOD.....3-4PM..... Science 129**

Board Meeting.....*Science 129*

Verify your membership renewal information by checking your address label on the last page. If it is not right, let the treasurer know.

Mark your calendars for these meeting dates  
2025: May 4.

Coffee, cookies and donuts are available during the day in room 129 .

“Friends Helping Friends” since April 1976

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**Reminder:** Membership expiration dates are based on the date that you joined the club. **Example**, you joined or re-upped your membership in the club in October of 2024. That means that in October 2025 you should pay your membership dues. In the address label area of the Orange Bytes is your join month/expiration month.

## Reprint Policy

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## Editors Corner

**Upgrading to Windows 11 on Unsupported Hardware: A Step-by-Step Guide (Rufus Method)**

Step 1: Create a Full System Image Backup

Not creating a complete image backup of your current Windows 10 installation before doing this is stupid!

1. Open Backup and Restore (search the "Backup and Restore" tool in Windows 10): or any other complete image backup software you have and run it

2. Create a System Repair Disc (Optional but Recommended):\*\* Once the backup is finished, you may be asked if you want to create a system repair disc. While not strictly essential for restoring from an external drive, it can be a valuable tool in certain recovery scenarios. If you have a blank CD or DVD, it's advisable to create one.

Step 2: Downloading the Windows 11 ISO File

Next, you'll need to download the official Windows 11 ISO (International Organization for Standardization) file from Microsoft. This file contains all the necessary installation files for Windows 11.

1. Download the official Windows 11 ISO. Visit the Microsoft Software Download Page. You can typically find this by search-

ing for "download Windows 11 ISO" on your preferred search engine.

2. Select "Windows 11 (x64)":\*\* On the download page, locate the section for downloading a Windows 11 disk image (ISO). From the dropdown menu, select the "Windows 11 (x64)" option. This CPU or a different one.
3. Choose Your Language, then click "Confirm."
4. Finally, click the "64-bit Download" button. The ISO file will now begin downloading to your computer. Go get a cup of coffee or whatever.

Step 3: Creating a Bootable USB Drive with Rufus

Now, we will utilize a tool called Rufus to create a bootable USB drive from the downloaded Windows 11 ISO file. Rufus offers an option to bypass the TPM and Secure Boot requirements, which is crucial for installing Windows 11 on unsupported hardware.

1. Download Rufus:\*\* Visit the official Rufus website (usually `rufus.ie`) and download the latest version of the application. Rufus is a portable executable, meaning it doesn't require installation.
2. Connect a USB Drive:\*\* Connect a USB drive with a minimum capacity of 8 GB to your computer..
3. Run Rufus:\*\* Double-click the Rufus executable file to launch the application.
4. Select Your USB Drive:\*\* In the "Device" dropdown menu, select the USB drive you just connected.
5. Select the ISO File:\*\* Click the "SELECT" button next to the "Boot selection" dropdown menu. Browse to the location where you saved the Windows 11 ISO file and select it. Click "Open."
6. Configure Image Option:\*\* Under "Image option," ensure that "Standard Windows installation" is selected.
7. Partition Scheme and Target System:\*\* Rufus will typically automatically detect the appropriate partition scheme (MBR or GPT) and target system (BIOS or UEFI) based on your system.
8. Bypass TPM, Secure Boot, and RAM Requirements:\*\* This is the key step for installing on unsupported hardware. Look for a section or checkbox that allows you to bypass these checks. In recent versions of Rufus (3.17 and later), after selecting the ISO, a window might appear, or you might find a dropdown menu under "Image option" or a specific checkbox labeled something similar to "Extended Windows Installation (no TPM/no Secure Boot/8GB- RAM)." Select the option that enables you to bypass these requirements.
9. Start the Process: Once you have configured all the settings, click the "START" button.
10. Wait for Completion:\*\* Rufus will now begin writing the Windows 11 installation files to your USB drive. Once it is finished, the status in the Rufus window will change to "READY."
11. Click the "CLOSE" button to exit the Rufus application.

Step 4: Booting from the USB Drive and Installing Windows 11  
With the bootable USB drive created, you can now use it to initiate the Windows 11 installation process.

1. Restart Your Computer: Shut down your Windows 10 computer completely.
2. Access the BIOS/UEFI Menu: Turn on your computer and immediately begin pressing the key that allows you to enter the BIOS or UEFI settings. This key varies depending on your computer manufacturer but is often one of the following: Delete, F2, F12, Esc, or F10. You may see a brief message during startup indicating the correct key to press.
3. Change the Boot Order: Once you are in the BIOS/UEFI menu, navigate to the boot settings. You will need to change the boot order to prioritize booting from your USB drive. Look for options such as "Boot Order," "Boot Sequence," or similar. Select your USB drive as the primary boot device.
4. Save Changes and Exit: After modifying the boot order, save

the changes and exit the BIOS/UEFI menu. Your computer will now restart and attempt to boot from the USB drive.

5. Windows 11 Setup: If everything is configured correctly, you should see the Windows 11 setup screen appear. Follow the on-screen instructions to begin the installation process.
6. Installation Type: During the setup, you will be asked what type of installation you prefer. Choose "Custom: Install Windows only (advanced)."
7. Select Installation Drive: Select the drive where your current Windows 10 installation resides (usually Drive 0 Partition 2). You can choose to format this drive for a clean installation, or you can proceed with the installation to upgrade your existing system (although a clean install is generally recommended for better stability).
8. Follow the Prompts: Continue following the on-screen prompts to complete the Windows 11 installation. Your computer will restart several times during this process.

Step 5: Post-Installation Steps

- Once Windows 11 is installed, there are a few important steps to take:
1. Install Drivers: Windows 11 may not have all the necessary drivers for your specific hardware. Check Device Manager (search for it in the Start Menu) for any devices marked with yellow exclamation points. If you find any, you will need to download and install the latest drivers from your computer or component manufacturers' websites.
  2. Activate Windows: If your previous Windows 10 installation was properly activated, your Windows 11 installation should automatically activate as well. However, if you encounter any activation issues, you may need to troubleshoot or purchase a Windows 11 license.
  3. Restore Personal Files (If Clean Install): If you performed a clean installation, you will need to copy your personal files back from your backup or any other storage locations.
  4. Test Your System: Thoroughly test all your hardware and software to ensure everything is functioning correctly.

## A LITTLE HUMOR

Reaching the end of a job interview, the Human Resources Officer asks a young engineer fresh out of the Massachusetts Institute of Technology, "And what starting salary are you looking for?" The engineer replies, "In the region of \$125,000 a year, depending on the benefits package." The interviewer inquires, "Well, what would you say to a package of five weeks vacation, 14 paid holidays, full medical and dental, company matching retirement fund to 50% of salary, and a company car leased every two years, say, a red Corvette?" The engineer sits up straight and says, "Wow! Are you kidding?" The interviewer replies, "Yeah, but you started it."

A teacher wanted to teach her students about self-esteem, so she asked anyone who thought they were stupid to stand up. One kid stood up and the teacher was surprised. She didn't think anyone would stand up so she asked him, "Why did you stand up?" He answered, "I didn't want to leave you standing up by yourself."

**North Orange County Computer Club**

**Dr. Donald Armstrong  
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**To All Members:**

The line above your mailing address now shows your joindate. Please use your join **month** to choose when to renew your membership.

**Dated Material – Please deliver ASAP**

Membership Level (\$)	1 Year	3 Years
Individual Member .....	35	90
Each Additional Family Member .....	15	40
Full-Time* Enrolled College Student	20	
Enrolled High School Student	15	
*Minimum 12 Semester Hours		
Business Member + Ad (Business Card)	25	
Business Member + Ad (¼ Page, ½ Page)	65,	100
Business Member + Ad (Full Page)	175	
Contributing Member	75	
Supporting Member	100	
Advocate Member	250	
Patron Member	500	

**Directions to the NOCCC meeting location**



Enter CA-55 N (Costa Mesa Freeway) crossing Interstate 5 toward Anaheim/Riverside for 9 miles. *Notice freeway and street signs stating "Chapman University."* Exit toward E Chapman Ave. Turn right onto N Tustin St. Turn left onto E Walnut Ave.

1) Turn left past N. Center St. for the **best place to park** in the underground parking structure ( Lastinger under the sports field). Pay the small fee (\$2) to park Ask members or [help@noccc.org](mailto:help@noccc.org) about parking details, restrictions, and our price break!

2) Turn left onto N Center St. On the right is the Hashinger Science Center, 346 N Center St. Orange California. Parking on the University side is free. Parking on the residential side is a city violation that may cost you a **tow away and a ticket!**