**CMPE-224 YouTube Video Links**

<https://youtu.be/t2FoJmjBIQU> 224-S1-Asynchronous Circuits 1

<https://youtu.be/LDvmwL5NCRU> 224-S2-Asynchronous Circuits 2

<https://youtu.be/U9UWyHM56j4> 224-S3-Asynch-Synch Circuits 1

<https://youtu.be/V4c5zL28Ylc> 224-S4-Asynch-Synch Circuits 2

<https://youtu.be/rqMIAvQriW0> 224-S5-Asynch-Synch Circuits 3

<https://youtu.be/LnRNnruAxHE> 224-S6-Asynch-Synch Circuits 4

<https://youtu.be/1qSiQMmKG58> 224-S7-Asynch-Synch Circuits 5

<https://youtu.be/bTE9nQyVMlE> 224-S8-Asynch-Synch Circuits 6

<https://youtu.be/tbrD6QkGkr0> 224-S9-Register with Parallel Load 1

<https://youtu.be/0LS6LwwXeRQ> 224-S10-Register with Parallel Load 2

<https://youtu.be/a6Shc0LYN3A> 224-S11-Shift Register

<https://youtu.be/EMRPSR9VLOk> 224-S12-Shift Register with Parallel Load 1

<https://youtu.be/DZZOajAB-QI> 224-S13-Shift Register with Parallel Load 2

<https://youtu.be/doHGa7FrFGg> 224-S14-Bidirectional Shift Register with Parallel Load

<https://youtu.be/-8bwWnIwT1E> 224-S15-Multipurpose Register

<https://youtu.be/dZrqime977U> 224-S16-Counter with Parallel Load 1

<https://youtu.be/0VAp-q4r-DM> 224-S17-Counter with Parallel Load 2

<https://youtu.be/a3yNybxEXhI> 224-S18-Counter with Parallel Load 3

<https://youtu.be/1ICkHmd1wBs> 224-S19-Counter with Parallel Load 4

<https://youtu.be/MdG7Juq53Hs> 224-S20-ASM Chart 1

<https://youtu.be/PlyR1TFH8X0> 224-S21-ASM Chart 2

<https://youtu.be/kLt7eZL9sHI> 224-S22-Mapping to ASM 1

<https://youtu.be/ObWGD1uupYw> 224-S23-Mapping to ASM 2

<https://youtu.be/gVi5dL0vjFk> 224-S24-Mapping to ASM 3

<https://youtu.be/c8ArLPEbraU> 224-S25-Mapping to ASM 4

<https://youtu.be/eq1L-x6B87k> 224-S26-Mapping to ASM 5

<https://youtu.be/MevqQMcOSOA> 224-S27-Mapping to ASM 6

<https://youtu.be/HP63QoOT-5U> 224-S28-DataPath Design 1

<https://youtu.be/hhSSfpn81NA> 224-S29-DataPath Design 2

<https://youtu.be/2y8lxVBwN8g> 224-S30-Controller Design 1

<https://youtu.be/NjtjrNYZ0VE> 224-S31-Controller Design 2

<https://youtu.be/qa8Rau7qN8Y> 224-S32-Controller Design 3

<https://youtu.be/VtfryWdeYRw> 224-S33-DataPath+Controller

<https://youtu.be/qMG0RA0QZlI> 224-S34-Controller Design 4

<https://youtu.be/PdsosOnblT4> 224-S35-Controller Design 5

<https://youtu.be/JUeZ8fpIns0> 224-S36-Controller Design 6

<https://youtu.be/y1D6RTmHAm4> 224-S37-Controller Design 7

<https://youtu.be/1J0WGKlYn6c> 224-S38-Design with ASM 1

<https://youtu.be/NPWwuw9UwDk> 224-S39-Design with ASM 2

<https://youtu.be/R6aQi5OFZbs> 224-S40-Design with ASM 3

<https://youtu.be/sUa0kW-tPv8> 224-S41-Basic Comp. Architecture 1

<https://youtu.be/s0w7p4LmJNc> 224-S42-Basic Comp. Architecture 2

<https://youtu.be/RUkDM5zRcko> 224-S43-MARIE Architecture 1

<https://youtu.be/vtVcdkR9P2o> 224-S44-MARIE Architecture 2

<https://youtu.be/XUVg7plgCMk> 224-S45-Instructions and Microoperations 1

<https://youtu.be/CKrQ5DUDh78> 224-S46-Instructions and Microoperations 2

<https://youtu.be/eoX0MYH2Vu4> 224-S47-Instructions and Microoperations 3

<https://youtu.be/2CrjbdvvoIw> 224-S48-MARIE Instruction Set 1

<https://youtu.be/l7IhTCuBvCA> 224-S49-MARIE Instruction Set 2

[https://youtu.be/T7DrvZj\_SMw](https://youtu.be/T7DrvZj_SMw%22%20%5Ct%20%22_blank) 224-S50-MARIE Instruction Set 3

<https://youtu.be/0p8oczAY-Cg> 224-S51-Assembly Programming 1

<https://youtu.be/_eHBE31_Ie0> 224-S52-Assembly Programming 2

<https://youtu.be/sZUmg5S6AXk> 224-S53-Assembly Programming 3