

Syllabus for **CS5242**, with Fall 2022  
 Neural Networks and Deep Learning  
 Week 1-6 You Yang, Week 7-13 Ai Xin

Week	Date	Topic	Tutorial	Due Today
T, 08/02 is public holiday				
<b>2</b>	T, 08/16	Introduction to Deep Learning		
<b>3</b>	T, 08/23	(Shallow) Neural Networks		HW1 Part1
<b>4</b>	T, 08/30	Training Deep Networks	HW1 Solution HW2 Brief	HW1 Part2
<b>5</b>	T, 09/06	Convolutional Neural Network (CNN) Basics	HW2 Solution HW3 Brief	HW2
<b>6</b>	T, 09/13	Regularization + CNN Architectures	HW3 Solution HW4 Brief	HW3
Reading Week				
<b>7</b>	T, 09/27	Deep CNN Architectures & A Real-World Application of Deep Learning	HW4 Solution HW5 Brief	HW4
<b>8</b>	T, 10/04	Recurrent Neural Networks I	HW5 Solution Project Brief	HW5
<b>9</b>	T, 10/11	Recurrent Neural Networks II & Applications	Project Consult HW6 Brief	Project Plans
<b>10</b>	T, 10/18	Attention Neural Networks	HW6 Consult	
<b>11</b>	T, 10/25	DL Applications I: Computer Vision	HW6 Solution HW7 Brief	HW6
<b>12</b>	T, 11/01	DL Applications II: Generative Models	HW7 Consult	
<b>13</b>	T, 11/08	Conclusions	HW7 Solution Project Consult	HW7
Reading Week				
		Project Submission		