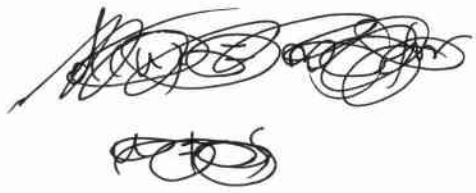
EE 450

Dijkstra Algorithm $(G = (V, E))$ le

- Let S be the set of explored nodes.
  For each $u \in S$, we store a distance $d(u)$
- Initially $S = \{s\}$, $d(s) = 0$



- While $S \neq V$
  ① Select a node $v \notin S$ with at least one edge from S for which
  $d'(v) = \min_{e=(u,v): u \in S} \{d(u) + l_e\}$ is as small as possible
  ② Add v to S and define $d(v) = d'(v)$

End while

1. wel
2. cancel of class
3. Easy. Not mandatory
4. Update syllabus

S	d(B), p(B)	d(C), p(C)	d(D), p(D)	d(E), p(E)	d(F), p(F)
A	2, A	5, A	∞	∞	∞
A, B		5, A	3, B	6, B	∞
A, B, D		5, A		5, D	6, D
A, B, C, D				5, D	6, D
A, B, C, D, E					6, D
A, B, C, D, E, F