

# MCB 5672-01 Applied Bioinformatics

May 17 from 12-5pm, May 18 and 21 from 9am-5pm

## 1 Credit

Instructors: Kevin Lee ([kevin.lee@uconn.edu](mailto:kevin.lee@uconn.edu)) and Jonathan Klassen ([jonathan.klassen@uconn.edu](mailto:jonathan.klassen@uconn.edu))

Learn about current generation sequencing technologies:

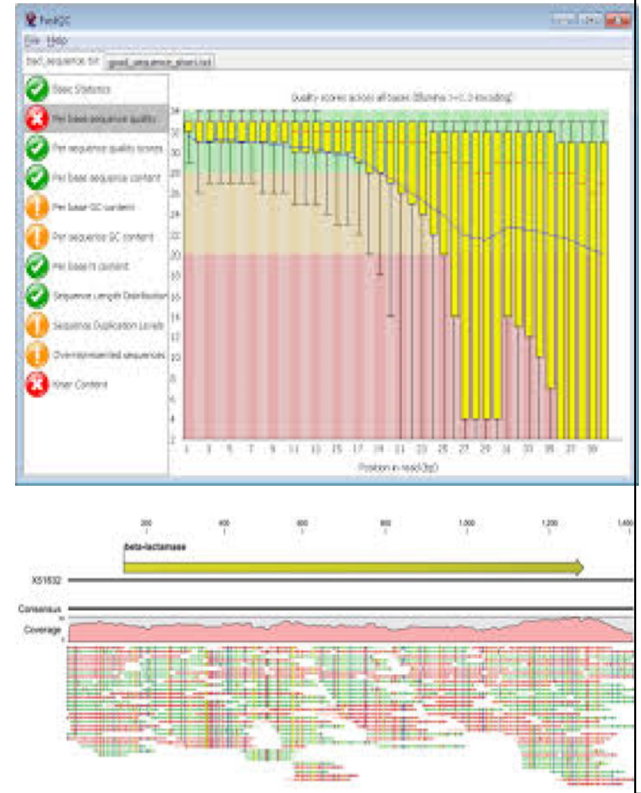
- Capabilities
- Costs
- Types of data generated



```
top - 18:45:46 up 22 days, 2:32, 7 users, load average: 0.15, 0.83, 0.98
Tasks: 119 total, 1 running, 115 sleeping, 0 stopped, 3 zombie
%Cpu(s): 10.0 us, 8.3 sy, 0.0 ni, 81.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem:  448180 total,  417992 used,   30188 free,   13780 buffers
KiB Swap: 102396 total,    4 used,  102392 free,  186144 cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
25788	me	20	0	4672	1392	1024	R	1.6	0.3	0:00.43	top
2273	bshotts	20	0	105m	8044	5452	S	1.3	1.8	281:34.93	lxpanel
10888	bshotts	20	0	4764	2904	1168	S	1.3	0.6	29:34.91	tmux
2227	root	20	0	40912	32m	5268	S	1.0	7.4	314:00.60	Xorg
7	root	20	0	0	0	0	S	0.3	0.0	32:05.08	rcu_preempt
2271	bshotts	20	0	15624	5048	2696	S	0.3	1.1	24:21.51	openbox
2325	bshotts	20	0	269m	16m	8860	S	0.3	3.8	178:19.80	geany
2337	bshotts	20	0	118m	12m	6824	S	0.3	2.8	98:14.53	lxterminal
24582	me	20	0	9808	1520	884	S	0.3	0.3	0:00.07	ssh
1	root	20	0	2144	672	568	S	0.0	0.1	1:07.28	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	10:46.14	ksoftirqd/0
5	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_sched
10	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	khelper
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs

A brief Unix “boot-camp” to get you comfortable driving a computer from a command-line interface



Learn how to assess the quality of your sequences and “clean” them before use in other applications like reference genome comparisons (single nucleotide polymorphisms) and *de novo* genome assembly

**OPEN TO ALL GRADUATES AND QUALIFIED UDERGRADUATES**  
 Permission number: Contact Elaine Mirken ([elaine.mirken@uconn.edu](mailto:elaine.mirken@uconn.edu))