

# STA 4183 – The Theory of Interest

## Formulas for Different Investment and Reinvestment Rates

Investment rate $i$ Reinvestment rate $j$	Reinvestment Annuities	Accumulated value
$a(t) = 1 + i \left( \frac{(1+j)^t - 1}{j} \right)$	Immediate	$(Rs)_{\overline{n} } = n + i \left( \frac{s_{\overline{n} j} - n}{j} \right)$
	Due	$(R\ddot{s})_{\overline{n} } = n + i \left( \frac{\ddot{s}_{\overline{n} j} - n}{j} \right)$